

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: 20A notes
Message-ID: <Pine.ULT.3.91.960527171753.17510A-100000@admin.aurora.edu>

While waiting for some 7BA7's to show up so I can actually generate a signal, I have been looking over the rig and thinking about the first one I had about 20 years ago. A few things came back to mind.

- 1) The 20A does not have PTT. It is simple to add - just change out the mic connector to a 3 circuit 1/4" phone jack and for the PTT connection, run a wire to the cathode of the relay driver stage. Shorting the 2700 ohm cathode resistor to grd pulls in the relay and away you go.
- 2) The B+ runs about 100V higher than the schematic shows (in standby). Looking at the specs for the 6E5 eye tube shows that the max target voltage should be 250V. In my 20A this is well over 300. To lengthen the life of the 6E5, drop the voltage to pin 4 by inserting a 47K resistor. I can tell this rig was used and didn't just sit on a shelf as the 6E5 was pretty bad.

Any other 20A fans out there?

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: Paul_Bocci-CPB007@email.mot.com
Subject: 6 Mc crystals for 6 Meters?
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Hi Folks,
Among the things which came home with me from the DeVry hamfest this Sunday was a large sack of old crystals. In sorting through them I found quite a number of 6 Mc rocks which multiply up to the 6 meter band. There were also a few that might work for 2 meters. Are these useable? Will any of the more popular 6 meter boatanchors work with these? Is anyone out there interested in trying a few of these out? (I don't have any 6 meter BA's to use them with).

73
Paul, K9NO

CBP007@email.mot.com

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: "D.D. Todd" <dube3@n-link.com>
Subject: Re: 7199 Tube
Message-ID: <31AAA0D6.2BF@n-link.com>

Al Klase said

>

>....The whole effect would be almost as bad as having your
> transformer cores misaligned to the earth's magnetic field.
>

Which brings to mind the reason why there's no decent mobile Hi-Fi. As the vehicle moves along, the wiring and components pass through the earth's magnetic field, causing voltages and currents to be induced, which in turn creates a strange form of sub-harmonic distortion. Generally this distortion manifests itself as a "boom-boom-boom" or a "thump-thump-thump" sound.

--

73,
Dube Todd AB5AP dube3@n-link.com

If we had to tolerate in others all that we permit in ourselves, life would be completely unbearable.
- Georges Courtelline

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>
Subject: 75A4 for trade
Message-ID: <138F0B1B4A@sbii.sb2.pdx.edu>

Hi Folks,

To all who replied to my posting of the 75A4 I wanted to trade for a TR-7 + stuff --

after a little negotiation a deal has been struck and one of our list will be receiving the fine old beast.

In many ways I will surely regret the loss, but the A4 will have a good home and be used more by its new owner. I prefer this fate to having the A4 sit on a shelf as a trophy next to a half-dozen others.

For my part, I will get a transportable transceiver which I need now, lots of accessories, and another Drake receiver for future use.

Thanks for your interest, and condolences to those who did not propose the winning trade combo.

=Randy=

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Rhett T. George" <rtg@ee.duke.edu>
Subject: A remote corner
Message-ID: <9605272054.AA15590@feller>

- Greetings -

ARC-5 receivers and their cousins have been favorites for years. Good fortune has smiled on me and enabled the acquisition of three of the BC-45X types over the past six months. One was badly butchered, one looks in fair shape, and one seems new (with its GE dynamotor in place). They share a common ailment. Someone has removed many of the beautiful 3-48 pan head screws that hold each together. Even the new-looking one has only two screws holding the bottom plate on. Lots of screws are missing from the BC-946B I bought Saturday at the DurHamFest, both the bright finish which hold covers and the dark finish which hold components. There must have been a notion years ago that swallowing one of these lovely screws each day would make one healthier, wiser, better-looking, sexier, or richer.

Wait, I think I know where those screws are. They form the mound in the corner of the shack. Yes, right next to the stack of chassis bottom plates which never needed to be put back on anything. The only trouble is, I do not know even which state this unidentified shack is in, to say nothing of a street address.

If anyone will tell me where the unidentified shack is, or of any other place to fetch up some of these beautiful screws, I shall be most appreciative. For the well-intentioned amongst you who seek to relieve my worry by taking the receivers off my hands, thanks but no thanks. They need to spend some time with me.

73

Rhett George - KE4HIH

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>

Subject: Re: A remote corner

Message-ID: <Pine.ULT.3.91.960529103538.28504A-100000@admin.aurora.edu>

On Wed, 29 May 1996, Rhett T. George wrote:

> They share a common ailment. Someone has removed many of
> the beautiful 3-48 pan head screws that hold each together. Even
> the new-looking one has only two screws holding the bottom plate
> on. Lots of screws are missing from the BC-946B I bought Saturday
> at the DurHamFest, both the bright finish which hold covers and the
> dark finish which hold components. There must have been a notion
> years ago that swallowing one of these lovely screws each day would
> make one healthier, wiser, better-looking, sexier, or richer.

I think it's part of the communist plot that didn't get written into
"Dr. Stranglove".

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Wed May 29 13:24:12 1996

From: "Dick Dillman" <ddillman@igc.apc.org>

Subject: BA FAX Power Supply

Message-ID: <90801.ddillman@igc.apc.org>

Greetings, fellow enthusiasts.

As some may remember, me and my sidekick Sprout brought home a BA
military FAX machine from Foothill a couple of weeks ago, namely an
AN/TXC-1. As I reported at the time, the NIB unit came sans power
supply.

Since then, while admiring the inherent beauty of the machine,
I've been awaiting the arrival of an original manual from Fair
Radio. Today the postperson came and I now know the nomenclature of
the needed power supply - as well as many other wonderful things about
the AN/TXC-1.

To cut to the chase, what I need is a PP-86(*)/TXC-1. So, if anyone
has one of these propping open a door somewhere, or knows someone who
does or knows someone whose grandfather saw one once, please let me
know.

Dick Dillman
WPE2VT N6VS ex-WA2BJK

<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Jim Zellmer <zellmer@raccoon.com>
Subject: Bandswitch belts for FPM300
Message-ID: <199605290356.WAA04707@slip1.raccoon.com>

I picked up a Hallicrafters FPM-300 last fall which was complete except for the cog belt used to couple the two bandswitch shafts. After looking for a couple of months I found a source for a belt that would work. Since the place had a minimum order I have several extra belts. If you need a belt for your FPM-300, these should get you fixed up. I will ship them for \$5.00 each.

TNX ES 73

Jim Zellmer, KA0VSL
Phone 515-279-4911 (home)
515-274-1561 (work)
515-271-7207 (fax)

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: Andy Wallace <wallace@mc.com>
Subject: BC-1206-C and DX-60s still available
Message-ID: <9605281136.AA02173@taku>

These three items are still available. Anyone want 'em? The clock starts on a week again. (Feedback shows that people liked the idea last time.) Here's the poop:

----- Begin Included Message -----

-- SETCHELL CARLSON BC-1206C (longwave) Beacon Receiver.
Covers 200-400 kc, 28VDC (no dynamotor required), 5 tubes. Includes DC cable and that weird antenna lead-in. Also includes original manual! Untested, nice shape overall with some paint missing from the back edge. Black wrinkle. \$35 + shipping.

HEATHKIT DX-60 transmitter. This is the earlier one

similar in style to the Apache, with the recessed panel meter. Someone did a fairly neat job of installing a ceramic crystal socket on the front panel. It has unoriginal knobs on it, now, but I may be able to round up a set. I never made any AM contacts with it, but I believe it works in AM and CW modes okay, with reasonable output. Also have a spare rig, possibly the -B model with the larger panel meter, bought in untested condition (seller said mode switch may be flaky) and it has a slight cabinet dent. Make an offer for one or both, plus shipping.

I'd probably prefer trades on these things...what have you got? Looking for a Drake 2-AS/BS or CS speaker (without Q-multiplier), National speaker, manuals, what-have-you?

To be fair, I am going to wait a week on these things in case more than one of you wants an item, then draw from a hat. I know it can take a while for email to propagate.

I also have a Swan 260 Cygnet transceiver which I am considering trading for a Drake TR-4 and P.S. But the Swan is nice and compact for trips ... not that I take any trips! :-D The Swan is in beautiful physical shape.

73,
--Andy
wallace@mc.com

----- End Included Message -----

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: CAIG STUFF- DEOXIT & PREVERVEIT
Message-ID: <9605281700.aa03192@pcusa01.ecunet.org>

Caig's DeOxit D5 sure is fine stuff. Wish I had 20 years ago. Been fighting jumpy bandswitches for so long. Just about gave up on some older gear until I tried DeOxit.

Note another Caig product, PreserveIt P5. Says good to use it w/D5.

Anybody got experience with P5?

-John Sehring (05/28/96 10:06 am MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: RNickels@smtpmail.micro.honeywell.com (Nickels, Bob)
Subject: Clegg Venus
Message-ID: <1996May28.084545.1650.116630@smtpmail.micro.honeywell.com>

Rainy Memorial Day, decided to tackle the Clegg Venus, maybe get it ready for summer E season. At the rate I'm going, it may be the next sunspot cycle!

Anyone have experience with these beasts? Rx portion is working OK, Tx is putting out 50Mhz low level ssb which sounds good, but can't get anything thru driver/final without oscillation. I suspect the driver is oscillating, as a look at another Venus shows neutralization has been added. I grid-dip the driver tank to resonance but still can't get any drive. Clegg must have had a problem with this circuit to make a change within 8 serial numbers!

Thanks for any thoughts...

73, Bob KE0T
rnickels@micro.honeywell.com

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: Pmalvasi@aol.com
Subject: Collins KWS1 Manual
Message-ID: <960528153613_544115906@emout09.mail.aol.com>

I have an original manual for the KWS1 in good to vy good condx. No tears or mars.

\$25.00 plus whatever shipping/postage.

Pete, WB2BYQ
(201) 934-0321

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Bill_Carns-R07670Q@email.sps.mot.com
Subject: Collins S-Line CW Filters

Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

	Subject:	Time:9:48 AM
OFFICE MEMO	Collins S-Line CW Filters	Date:5/29/96

I am looking for a S-Line plug in CW filter. Any bandwidth. Is there some one out there with an extra ??

Thanks in advance.

Bill

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: don merz <71333.144@CompuServe.COM>
Subject: Command Sets, CB, Docs FS
Message-ID: <960528031120_71333.144_DHB13-1@CompuServe.COM>

For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com. Offers and Trades welcome.

Collins knob. Small black knob w/skirt and index mark. Used on 75A-series radios. \$7 PPD

BC-453-B command set receiver 190 khz-550khz, aluminum. No visible mods on panel or case but FT-230 is set up with the usual controls and 1/4" jack. Dirty but in good shape. Dial paint peeling. \$19

BC-455-B command set receiver 6 - 9.1 mhz, aluminum. No visible mods on panel but case top has 3/8" hole and FT-230 is set up with the usual controls and 1/4" jack. Dirty but in good shape. \$26

BC-454-B command set receiver 3 - 6 mhz, aluminum. Antenna connector has been removed but the SO-239 was mounted on the side of the top cover, not on the front. This could be easily restored with a substitute top cover and a replacement antenna post. Then no signs that a restoration had been done would be visible. T-230 is set up with the usual controls and 1/4" jack and the filaments re-wired for 12 volts. Slightly dirty but otherwise in good shape. \$26

DeWald "Citizens Band Radio-Phone" model TR-910. Tunable receive and 5 channels of crystal controlled transmit. Tube lineup is 4-6EA8, 1-6AW6A and 1-6V6. No modifications that I can see but missing the small plate that covers the crystals and the handle (or bracket or whatever it was that mounted on those two studs on the side panel). With power cord, mic and 5 crystals. Some paint wear but basically very good condition. Untested. Very cute. \$59

Dispatcher's mic on 18" flexible "stand" with mounting bracket. Stainless

steel cone with square PTT button below mic head. There is no provision to lock down the PTT button. Tag missing. Slightly dented face. \$15

Literature

Military Navships 250-660-2 "Basic Principles of Turbine Electric Drive." March, 1945. With 2 1960's dated laminated cards showing different turbine specs by model and other data. Also includes 2 "Special Liberty Pass" forms (blank) from the U. S. Naval Training Center at Bainbridge, MD. Excellent. \$21 PPD

HP 608F VHF Signal Generator original manual. Like new. \$21 PPD

HP 608F VHF Signal Generator manual photocopy. Excellent. \$11 PPD

Westinghouse H-166, 167 and 168 FM radios Operating Instructions. \$2 PPD

Electrovoice Technical Data Sheet #25: Model 605 dynamic mic. \$2 PPD

GE Feathertouch Tuning Radio HJ-905, 908 Service Data: \$2 PPD

Brandes Products Corporation Power Cone blueprint diagram dated 1927. This was a combination field coil speaker and battery eliminator. \$3 PPD

Mallory Vibrator Guide, supplement to 1955-56 edition. \$3 PPD

Poster: Dictograph Home Music System models 100 and 200 with matching speakers A, B, C, D and E. "Now you can get 'the real thing' in Hi-Fi for \$100 less than if you did it yourself!" Dated 1955. \$3 PPD

Fada 830-series Service Notes. \$2 PPD

Philco Transistor Theory and Service booklet, 1957. 2 to sell. \$2 PPD

Military test gear original schematics: LAF-2, CT-400 and I-245B. All 3 for 4-stamp 8-1/2x11 SASE.

Free: 2 command set transmitter bottom plates.

Wanted: 1 command set receiver bottom plate.

From boatanchors@theporch.com Wed May 29 14:58:31 1996

From: Guy Dragoo <gdrag@proedge.com>

Subject: Dayton Ramblings...

Message-ID: <01BB4C7E.51E25BC0@ft228.computek.net>

How Dee Boatanchorites & Boatanchorettes from a hot and humid Texas; Well, the verdict is now in...after surviving my first Dayton hunting = trip I whole heartedly recommend that wild and woolly jungle they call = Dayton Hamvention.

While aimlessly roving the hamvention jungle I noticed the distinct air = of those unforgiving, unrepentant beings called Vendor Gods with their = Radium Boatanchor beasts held close at hand. Bleeding was profuse = (oddly it was a green) around their lairs and virgins were actively =

courted.

My particular taste of Radious Boatanchorus is the species identified by = the gray or black color pelt and odd looking birth marks (the breed has = two distinctive birth marks...one round and one winged) usually centered = on the forehead of the beast and of the Collinus Grandus species. Be = vvveryyy, vvveryyy careful ...they look harmless but can cause one to = fall to the ground in screaming writhing fits if one wanders in too = close and you are impaled with their pricus stickerus humongerous.

All of these beasts are guaranteed to create havoc back at the hut, as = well as profuse green bleeding and uncontrollable fits and spasms on the = range if lured into their den and stuck. I might add that it is next to = impossible to bag one of these unmanageable beasts without receiving = some sort of gaping near mortal wound, generally recognizable by a = sizable chunk of missing glutimus maximus and sacrificing of the first = born (college savings).

The acrid air at Dayton was full of the distinctive huff and growl of = the angry Vendor Gods and the screams of pain being let loose by those = unlucky few that strayed to close to their beasts (characterized as a = gasping sound generally attributable to the penetration of the pricus = stickerus humongus into an unwary, unsuspecting soul).=20

Yea, the Vendor Gods were angry Friday and Saturday and looking for = virgins to sacrifice...

A lamb in the woods, I felt exposed and venerable. Being a blond haired = lad (or is it mostly gray now <sigh>) and looking much less than my = nearly forty years (even with 3 girls and XYL) and with a mind like a = rusty trap (I think "stupid blond kid" fits pretty well) I was eyed = voraciously but managed to escape being sacrificed to the Vendor Gods = wiles.

On Sunday, happily the spell was broken and the Vendor Gods repented (It = was rumored the Vendor Goddess XYL would not receive them until the = beasts were disposed of). The Radious Boatanchorus beasts lost their = teeth (at least part of them) and were suddenly tamed and somewhat more = approachable...I felled a 51S-1 and a 32S-3 (still having a little = trouble sitting tho...)=20

All Dayton virgins beware, Vendor Gods with their untamed beasts are = there lurking...just waiting to pounce and revel in the "unsuspecting = and vulnerable".

73

Guy Dragoo AC5HL

PS I talked with fellow Texan Jay Miller at the meet and found him to be = quite a nice fellow and with lots of good advice. It was pleasant to = see a fellow with Collins interest that was a nice guy to boot and not = out for the kill. I recommend that all Collins contemplators take a = look at his reference book.

From boatanchors@theporch.com Wed May 29 21:34:44 1996

From: jschwart@ix.netcom.com (John Schwartzberg)
Subject: Re: Dissimilar metals (long)
Message-ID: <199605300004.RAA14837@dfw-ix11.ix.netcom.com>

I've read over the first three messages of this thread, and have a few thoughts to toss out.

First, a little background information. Galvanized steel is usually mild, or low carbon, steel covered with one of a family of zinc based coatings known colloquially as galvanized coatings. The coatings are primarily zinc, but may include additions of aluminum, silicon, magnesium, bismuth, lead, cadmium, tin, chromium, nickel, and titanium. Some coatings include lots of aluminum - almost half - and are known as galvalum coatings.

Garden variety galvanized coatings are typically applied by one of two main methods. The first method is a hot dip method, in which, as the name implies, the steel is dipped into a molten bath of the zinc based coating after the steel surface is properly prepared. The second method of application is an electrochemical process. Most common galvanized products, like fence posts and rails, and, uh, oh yeah, Rohn tower, is hot dipped.

For those not interested in why we galvanize carbon steel, skip to the arrows below -way below. Nerds, read on.

Galvanized coatings protect steel in two primary ways. The first way is by simply covering the surface of the steel, protecting it from exposure to the atmosphere or other corrosive medium. More importantly, galvanized coatings protect the steel from corrosion because application of the coating to the steel surface creates an electrochemical cell. Yep, a cell just like a battery. And precisely the kind of cell that got this whole discussion going - a dissimilar metal cell (there are other types of cells - we'll save discussion of those until we all have incurable insomnia).

Zinc or galvanized coatings have been used for more than 100 years to protect steel from corrosion or rusting. With no coating, the steel will corrode in a manner referred to as general, or uniform, attack. This process, known as rusting, occurs over all of the exposed surface, and results in the loss of steel coupled with the formation of rust, which is iron oxide. The rate of corrosion for uniform attack, usually measured in weight loss or thickness loss per unit area, starts high and decreases with time, and is lower than other types of corrosion.

The galvanized coating provides corrosion protection for the underlying steel in one of two ways. First, the zinc coating serves as a barrier layer to isolate the steel from the deleterious environment. When exposed to typical atmospheres, a tightly adherent film of zinc corrosion products forms on the coating surface. First, zinc oxide (ZnO) is formed, and is converted to zinc hydroxide ($ZnOH_2$) in the presence of moisture. Upon exposure to

carbon dioxide (CO_2) in the air, zinc carbonate (ZnCO_3) is formed, which is relatively insoluble and impedes further corrosion. This is the gray patina normally associated with weathered galvanized coating.

The presence of the zinc also serves to provide cathodic protection of the steel. An electrochemical cell similar to a battery is created when the zinc is intimately bonded to the steel. The steel is polarized to become the negative pole, or cathode, while the zinc coating becomes the anode, or positive pole. In this system, called a galvanic cell, the zinc corrodes preferentially to the steel, thus protecting the steel. Corrosion of the steel does not take place as long as the zinc is present. Even when small defects in the zinc coating are present or cut edges are exposed, the protection process will continue until all of the zinc in the vicinity of the defect is consumed. Only then will the steel start to corrode.

Galvanized coatings have been so widely used because of the high level of integrity of the bonding to the steel. Unlike coatings which are chemically or mechanically bonded to the steel, a properly applied galvanized layer is metallurgically bonded to the steel by forming alloy phases comprised of iron from the steel and zinc from the galvanized coating. These integral alloy phases provide excellent adhesion to the steel substrate and range in composition from approximately 75 percent zinc and 25 percent iron at the steel interface to pure zinc on the surface. The various alloy phases are of differing hardness and abrasion resistance. Pure zinc is soft and ductile, whereas the iron-rich alloy phases at and near the bond interface are hard and abrasion resistant. Thus, when the surface of the coated sheet is scratched, the harder layers resist abrasion and help prevent exposure of the steel surface.

The presence of paint over the galvanized coating provides additional corrosion protection in typical atmospheres. The paint layer first acts as an additional line of defense, providing a barrier coating to protect the zinc from atmospheric corrosion described above. If the paint is damaged, the underlying zinc coating provides a sacrificial barrier against corrosion. Consider the case where the steel is painted, but has no galvanized coating. Steel rusting can occur under the paint layer when a void is present. The rust ultimately bleeds through the paint void to the surface, damaging the paint layer further by lifting still adhered paint from the steel surface, and corrosion proceeds at a rapid rate. When the zinc layer is present between the paint and the steel, zinc corrosion products seal the void in the paint and preclude further corrosive damage.

Defects in the galvanized coating prohibit the zinc from serving as a barrier coating if the paint is abrogated. When the galvanized coating defect allows the steel surface to be exposed to the atmosphere, galvanic zinc corrosion proceeds instead of general zinc corrosion. Galvanic corrosion of the zinc proceeds at a higher rate than uniform corrosion,

resulting in exposure of the steel surface to general corrosion much more quickly. In effect, the role of the zinc acting as a barrier coating prior to acting as a sacrificial coating is lost, and one line in the defense against corrosion of the steel is lost.

When voids in the zinc are present, galvanic zinc corrosion occurs even faster than normal due to a phenomenon known as the area effect. This effect occurs when the area of the zinc is much smaller than the area of the steel exposed to the atmosphere. The small area of zinc is the edge of the coating, while the large area of the steel is the area formerly covered by a zinc grain or the area exposed when the zinc coating crazes, cracks, and pulls away from itself at the grain boundaries.

When enough zinc corrodes to enlarge the steel area exposed to the atmosphere, the corrosion mechanism changes from galvanic zinc corrosion to general corrosion of the steel. At this point, the zinc coating is no longer able to provide cathodic protection, and the steel is unprotected. Localized corrosion of the steel proceeds as if there were no zinc present in the vicinity, and can proceed very quickly. This mechanistic change occurs when the area of steel exposed reaches a critical size, which is in the range of the size of larger voids observed in cracked zinc coatings to the size of zinc grains.

There is a list of the propensity of metals to corrode based on their electrochemical potentials when undergoing oxidation or reduction reactions. This list is called the electromotive series. A similar list (actually, set of lists) has been proposed that takes into account alloys, as well as pure metals, and also accounts for particular environments. This is called the galvanic series. Each series ranks metals/alloys from most noble (least likely to corrode) to most active (most likely to corrode). For instance, gold, platinum, and palladium are the three most noble metals on the EMF series, while lithium, potassium, and calcium are the most active (yep, all are metals!).

So, what does this mean for dissimilar metal cells? Well, if two different metals are in contact, and in contact with a corrosive medium, one of the two will be more noble than the other, which will be the active metal in the pair. We call the active metal the anode, and the noble metal is called the cathode of the cell (actually, there is debate about the terminology, depending upon the sign or direction of the standard half cell reaction on which the EMF series is based, but if you understand this, you already know that '-D). Just remember that the anodic reaction is the oxidation reaction, and that means corrosion! So, the active metal corrodes preferentially to the noble metal.

A copper ground strap over the galvanized leg of a tower is a pretty complex dissimilar metal system. It is actually a complex combination of two

dissimilar metal cells: one cell in which the steel is cathodic with respect to the zinc, and another in which the zinc is anodic with respect to the copper. That means that the zinc coating protects the steel, and the galvanized coating is consumed by corrosion to protect the steel. In the other cell, the zinc also protects the copper because it is the more active electrode in the cell.

---> ---> ---> OK, with that bit of background, let's get down to business.

I do not recommend soldering to the galvanized coating! First of all, Bobbi's brew of flux, cleaners, etc. is likely to be far more corrosive than the mechanism that this is designed to defeat! Furthermore, the tenacious oxide formed by the zinc will likely preclude a good solder joint with mechanical integrity and good electrical conductivity. Finally, the heat imposed will destroy the metallurgical structure, and hence quality, of the zinc coating.

A braze joint could be developed to attach the strap to the steel directly, but the zinc coating would have to be removed. This would severely compromise the ability of the galvanized coating to protect the steel.

I also do not generally recommend drilling through the leg of the tower. First, a bolt hole through the leg of a section of Rohn 25, 45, or even 55 would seriously weaken the structure. Not only is there a loss of cross section for load carrying, the presence of a hole reduces the strength by a factor higher than the proportional loss of area. This is less of an issue for large large large towers in which a 0.250 inch diameter hole is drilled in a leg with a diameter of 4 to 6 inches.

Also, the rupture of the coating by drilling a hole will result in accelerated corrosion of the steel. And, no matter how tight the bolt, moisture will accumulate in the tower leg, and increased corrosion rates, and other corrosion mechanisms will come into play as well.

OK, so what to do? Clean the surface of the tower leg with nothing very aggressive - water, mild solvent, water rinse. A next step, although probably overkill, would be to use a surface wash designed to prepare for painting. Then use clamps designed for contact attachment to attach the strap to the tower. These are often made from stainless steel, or carbon steel plated with chrome. For amateur radio towers, this should be sufficient. Periodically remove the strap, clean the surface of the coating, and reattach. Just be careful with the coating - don't scratch, gouge, etc!

If you wish to paint the surface, use the surface wash or wash primer after cleaning. Ask your paint dealer for a zinc rich paint designed for galvanized surfaces.

Bottom line: There is lots in life to get wacked out about. There is lots in life that is complex and difficult. Bonding a ground strap to a tower leg is not among either of those categories. Follow the suggestions, keep it clean, check it periodically, and you will not eat your tower leg by corrosion.

By the way, there are many different stainless steel alloys - I'll not bore you with the details, but most of the hardware you buy is AISI 304. Some is 316 or 321, and just about anything else is special order or very rare. The differences in corrosion resistance for atmospheric environments involve resistance to pitting corrosion in marine areas. More on that topic is available if anyone really wants it!

jschwart@ix.netcom.com

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: wb6zwc@ns.net
Subject: dissimiliar metals in a hostile enviornment
Message-ID: <199605272336.QAA00433@eagle.ns.net>

Would somebody be interested in giving this gentleman
a correct answer?

> "Roger Graves" <rgraves@uvic.ca>
>
>Hi,
>Can someone tell me the proper way to connect copper or tinned
>copper to a galvanized tower to avoid electrolytic or
>other corrosion problems? (A copper strap bolted to the tower two
>years ago is now an open connection.)
>
>Thanks & 73,
>Rod, VE7FPT
Wanted 312-B3
Richard@Sacramento,Ca.

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: dissimiliar metals in a hostile enviornment
Message-ID: <Pine.SUN.3.91.960529123852.8662A-100000@indy3>

Hi!

On Wed, 29 May 1996 wb6zwc@ns.net wrote, quoting another fellow:
> >Can someone tell me the proper way to connect copper or tinned
> >copper to a galvanized tower to avoid electrolytic or
> >other corrosion problems?

Answer one: Can't be done, don't do it. (Forsooth, there is no really long-term answer. Whatever is done will not last as long as the Parthenon).

Answer two: Soldering can work, but it adds yet one more metal to the electrochemical equation and, barring input from Our Actual Chemical Engineer (who is uniquely qualified 'mongst the Boatanchorists), I'll offer that it is probaby more trouble than it is worth. The flux can *really* make for a festering witches' brew, and defluxing, de-defluxing, then getting all the moisture out is mildly tricky. (baking-soda water, distilled water--a *lot*--, alcohol and "carbo chlor" in that order will prolly do it, but note that most of that list are things that should not be dripping into the back yard).

So, Answer three:

The simple, brute-force way! Get the copper and the tower leg *clean,* as in shiny-bright. Drill a hole or holes in 'em, find bolt(s), nut(s) and nice toothy lockwasher(s) to suit--a flat washer or two would be nice as well--and put it together *tightly,* with the toothed washer(s) betwixt copper strap and tower, and for the fancier taste, flat washers under the head of the bolt and the nut. Really ritzy folk may want to put a split "shakeproof" washer under the nut, too.

(Alternatively, you can put a pair of toothed washers on the outside of the tower/strap sandwich instead of one in between, but it doesn't work any better and may even hasten corrosion--depends on just how dissimilar the two metals are, how humid it is when you assemble it, and how chemically active the paint is, since it will wick in around the edges).

Crunch it down nice and *tight.* Use a couple of wrenches, not rusty gas pliers and that bent screwdriver the kids found in a vacant lot, and *paint* it with a good grade of enamel paint right after you get it put together. Neatness does not count, glop that paint on good and get it in all the cracks, crevices and gaps.

Don't put off the painting! You can't really stop dissimilar metals from Doing Things, but you can slow 'em down a *lot.* The best way to do that is to keep air and water out of the point of contact, and thus the paint.

...Anyway, that's what we did with AM BC station tower connections, typically something like 1/4" to 1/2" copper water pipe bolted to the base of the steel or galvanized tower, and it held up nicely. It didn't last forever--in 1986, the 1937-vintage South tower at WNDE was on its second or third connection since installation. But it's pretty good performance for a few minute's work every 15 or 20 years! :)

--Bobbi

(cc:'d to the BA list 'cos it may be basic but it is often overlooked).

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: clarke@next3.acme.ist.ucf.edu (Thomas Clarke)
Subject: Re: dissimiliar metals in a hostile enviornment
Message-ID: <9605291958.AA01320@next3.acme.ist.ucf.edu>

Roberta Barmore suggested:

So, Answer three:

The simple, brute-force way! Get the copper and the tower leg
clean, as in shiny-bright

Reminds me of a dissimilar metal problem I had yesterday -
copper and lead next to a lead acid battery under a car hood.

After replacing the eaten up terminal and fuming battery, I sprayed
this purple stuff on the connection that is supposed to protect
the terminal from fumes and maintain the contact.

I wonder if the same purple spray pretectant would work on tower
connections. I forget the brand, but it's automotive store stuff.

Tom Clarke
KE4VFH

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: dissimiliar metals in a hostile enviornment
Message-ID: <Pine.SUN.3.91.960529151904.7716E-100000@indy4>

Hi!

Okay, it's time to eat a little crow:

1. I do not live or work near the sea. What works in Indiana may not
work worth a darn on the coast!

2. In the radio/TV broadcast biz, we use stainless hardware on towers
(except some rigid coax uses bronze stuff at the joints). I thought
everyone did! >Blush< And tch-tch. (There are, 'tis said, different
kinds of stainless, some of which are better than others; metallurgists,
please comment!)

Crow aside, I have very little faith in any sort of "magic goo"

exposed to the weather. Noalox is fine stuff but YMMV after a rain or two, and the same goes--in spades!--for conductive grease with copper filings in it. The latter is right back to copper against galvanized (or whatever), with the addition of grease to hold little pockets of water after it's been rained on. A cleverer soul may have an answer for that one but it looks like trouble to me. Maybe not, and probably not all that rapidly, but I don't have any first-hand data on it. (Somebody on the list surely does?)

Tom's magic purple stuff sounds interesting; don't know a thing about it but I'd sure like to hear about it again in a year or so!

No fix that I know of will last forever in this application--no matter what the manufacturers say. Many of them will last a very, very long time, especially if it's a ground rather than an RF feedline. :)

With any connection, the trick is to not slam to reactive materials together, to start out clean and to keep air & water out of the point of contact. (Also to read advertising with a grain of salt; Small Parts, Inc. or McMaster-Carr, etc. will sell stainless bits of known characteristics a lot cheaper than some of the specialist outfits!)

73,
--Bobbi

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: dissimiliar metals in a hostile enviornment
Message-ID: <Pine.SV4.3.91.960529122610.25245M-100000@uhunix3>

Hi Bobbi, You bcst folks have the right idea: Paint the joint. Aboard ship during calm WX or in port, you'll see the non-rated seamen chipping and painting, chipping and painting, chipping and painting... And who else but the Coast Guard (and Navy) would know best about maintaining metal in the harshest possible environment?

Wasn't it Michael Jackson who sang "Paint It!"?

Jeff KH2PZ/KH6

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Re: Drake Receiver Stuff
Message-ID: <Pine.ULT.3.91.960528104233.15714A-100000@dua150.kpt.emn.com>

On Fri, 24 May 1996, John Sehring (wb2eqg) wrote:

> For example, my R-4A has a pi-filter at the output of the VF0. This is not
> shown on its schematic. It does however show up in the R-4B radios and
> schematic.

It does show up on my R-4A schematic. I suspect Drake constantly made small changes and improvements but only occasionally changed the model number.

> The -A uses an 0B2 to provide a source of regulated voltage to (among other
> stages) the bipolar-transistor VF0. A resistor takes the 105 v down to
> about 8 volts for the VF0.

>

> The -B eliminated the 0B2 & just used resistors to drop the voltage for the
> VF0. As a result, when RF gain is varied (or other B+ load variations
> occur), the voltage to the (FET-type in the -B) VF0 varies & its frequency
> varies by a clearly audible amount.

>

> I don't like this! It does not happen with the R-4 (which has a tube-type
> VF0) or the R-4A. I may (gasp!) add an 0B2 (or something more modern) to
> the R-4B.

Bob Roehrig, K9EUI, added:

> I hate it when they drop hi B+ down to power solid state stuff. I would
> rectify/filter the filament voltage and use that.

John,

I suspect you have an entirely different problem. The solid-state Drake PT0's contained a Zener voltage regulator. Powering this Zener from high voltage through a high value of resistance is a good approximation of powering it through a constant current source, an ideal method for good stability. In my T-4X and R-4A, both the PT0 and the crystal oscillator are powered from this Zener regulated voltage. Whether the HV is regulated or not should make little difference if the Zener is working properly. Also both the PT0 and the crystal oscillator use BJT's.

With a simple Zener regulator like this, DC derived from the filament supply would cause more current change as the line voltage varied than would the HV supplied Zener. This would result in larger voltage changes of the Zener voltage - and more drift.

The price you pay for using this approximation of a constant current source is the dissipation of heat from the dropping resistor. If this resistor is located where it can change the temperature of the oscillators, you will see warmup drift.

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: Drake Receiver Stuff
Message-ID: <Pine.ULT.3.91.960529192017.29318A-100000@admin.aurora.edu>

On Wed, 29 May 1996, Barry L. Ornitz wrote:

> Bob Roehrig, K9EUI, added:
>
> > I hate it when they drop hi B+ down to power solid state stuff. I would
> > rectify/filter the filament voltage and use that.
>
> John,
>
> I suspect you have an entirely different problem. The solid-state Drake
> PTO's contained a Zener voltage regulator. Powering this Zener from high
> voltage through a high value of resistance is a good approximation of
> powering it through a constant current source, an ideal method for good
> stability.....
>
> With a simple Zener regulator like this, DC derived from the filament
> supply would cause more current change as the line voltage varied than
> would the HV supplied Zener. This would result in larger voltage changes
> of the Zener voltage - and more drift.
>
> The price you pay for using this approximation of a constant current
> source is the dissipation of heat from the dropping resistor. If this
> resistor is located where it can change the temperature of the
> oscillators, you will see warmup drift.

Barry is right, of course. I was thinking that if the set had 12V filament supply and the VFO required a somewhat lower voltage, I'd use one of the

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: TPHAAK@ccmail.monsanto.com
Subject: RE: DSP
Message-ID: <00314000012175780000002*@MHS>

Gang,

I was at the house of a firebottle ham friend the other day and he showed me with some excitement Radio Shacks DSP unit that he got on a close out sale for \$39.95.

It worked pretty nice for the price. I called around and found a store with some in stock. I hooked it up but didn't get much of a chance to see how well it did its thing.

The catalog number is 21-543 and it is not listed in the latest catalog. I suppose for what little I know of it at the moment it is useful at that price.

Maybe someone else on the list can comment and let the rest of us know if we should take advantage of the price.

Tim WA0TSY
tphaak@monsanto.com

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: ks0f@i1.net (MIKE SANDERS)
Subject: RE: DSP
Message-ID: <199605292122.QAA21639@mail1.i1.net>

Greetings All, I have 3 of these units bought new at closeout or used. One is on my SP600JX21 through a little matching transformer. It has a 5 watt audio amp and does a nice job getting audio out of a low out BA like the R390A. The little DSP is a great audio cw filter with 3 bandwidths available. As an automatic heterodyne search and destroy item it is absolutely beautiful. This thing works really well on AM to take out heterodynes and will attack several at the same time. It works. As a noise reducer forget it. It has no real digital algorithm base for noise reduction. A super BA accessory that works on CW/AM and SSB nicely and provides 5 watts audio with built in speaker or ext if you prefer. I use the big external speakers on the BAs I have these on. 73 de KS0F
P.S. I only use these on single ended receivers. None on any of the push pull Nationals. It just wouldn't be right! But on an NC300 or HQ110 now that's different.

> Gang,

> I was at the house of a firebottle ham friend the other day and he
> showed me with some excitement Radio Shacks DSP unit that he got on
> a close out sale for \$39.95.
> It worked pretty nice for the price. I called around and found a
> store with some in stock. I hooked it up but didn't get much of a
> chance to see how well it did its thing.
> The catalog number is 21-543 and it is not listed in the latest
> catalog. I suppose for what little I know of it at the moment it is
> useful at that price.
> Maybe someone else on the list can comment and let the rest of us know
> if we should take advantage of the price.
> Tim WA0TSY
> tphaak@monsanto.com

From: bgraham@tecnet1.jcte.jcs.mil
Message-ID: <199605292135.QAA26134@uro.theporch.com>

Subject: Anyone have a Heath SB series parts radio??

I'm looking for some SB 301 parts that are probaly common
to everything that uses the same lmo

bILL
N5LMX/DA1WG
bgraham@tecnet1.jcte.jcs.mil

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: Cal Eustaquio N6KYR <ceustaqu@dot.w6bhz.calpoly.edu>
Subject: EFJ bolts finally made/being shipped
Message-ID: <Pine.SUN.3.91.960528104747.589B-100000@dot.w6bhz.calpoly.edu>

For those of you who requested those bolts. They have been finally
constructed and are being sent out. Getting more stock so I can make more
without any future delays. Still have more 2 pin connectors and possibly
a Ranger PTT kit coming about the middle of June. 73's. Cal.

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Terry O'Laughlin, RM:7135, #:6-6667" <OLAUGHLIN@vilas.uwex.edu>
Subject: Electronic Dimensions
Message-ID: <MAILQUEUE-101.960529114726.544@vilas.uwex.edu>

> Jim, this is an OBVIOUS falsehood....nobody charges more than Tucker....

Wanna bet. The last time I was at Electronic Dimensions, he had the upper half of an WRR-2/FRR-59, missing the blower housing, the meters and some knobs. He said it was a parts unit (implying that it was incomplete internally as well). The asking price was \$300! His price was outrageous, but at least he was straight. Perhaps we should say that nobody is more unscrupulous than Tucker.

73 Terry O' WB9GVB

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Mark Glusker" <glusk@mechcad3.engr.sgi.com>
Subject: Electronic Flotsam
Message-ID: <9605280914.ZM23583@mechcad3.engr.sgi.com>

The following pieces are free for pick up in Mountain View or San Mateo, CA. These items were rescued from the trash and are destined to return there if no one expresses an interest. If you are desperate, I will ship for cost of shipping plus a couple old QST's (or other interesting magazines or catalogs).

General Electric Frequency Meter, 4.5" sq. panel mount, 6" deep, dial reads 350 Hz to 450 Hz, rated at 120 volts, very clean.

ARC-1 transmitter, no tubes, crystals or dynamotor, tag on front says "now on 40m" may imply some modifications but I am not familiar enough with the ARC-1 to know what to look for.

Meissner Deluxe Signal Shifter, fair-to-poor condition, some coils, no tubes or knobs.

Gonset 3-30 (?) poor condition, no tubes or knobs.

Hewlett-Packard cabinet only, 606A size and style but without louvers on top, no dents, needs paint.

--

Mark Glusker, glusk@sgi.com

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Daniel F. Stiles" <Daniel_F._Stiles@inetgate.ushmm.org>
Subject: equipment
Message-ID: <9604288333.AA833310206@inetgate.ushmm.org>

Hi to all-

Came across WWW called RING Trading Station on the web with the following postings

Clegg 99er \$25.00
Halli SX115 \$75.00
Hamm HQ110A \$75.00
Drake T4XB \$75.00
Halli FPM-300 \$200.00

The owner is Bill KF8FA and email is
EZEJ92A@prodigy.com

All equipment is described as in good condition.

!!
NOTE NOTE NOTE
!!

I just saw the posting. I do not know KF8FA or
have anything to do with the equipment.
You are on your own

73 Dan KB1BG

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: n5off@w5ddl.aara.org
Subject: Fair Radio 390A Prices
Message-ID: <382103@w5ddl.aara.org>

This subject came up the other day, so I looked at back catalogs of
Fair Radio prices for 390A's and came up with this.

	Used Repairable	Checked
1981-82	295	450
1983	Call for availability	
1984-86	215	335
1987-95	175	295
1996	200	325

In some years (87-91) they also had "complete" units for \$345-365.
The above repairable had no meters or covers. i think some of the
checked ones had meters some of the time.

FWIW

tom

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Re: FCC Commercial License - Followup
Message-ID: <9605281252.AA09400@syseng1.se.melpar.esys.com>

Steve, N1SR/VE1EES said:

>>The FCC summarizes the situation on Commercial Radio Operator Licenses
>>at <http://www.fcc.gov/wtb/colems.html> also of interest may be the "Self
>>Inspection" Checklists for AM, FM, and TV Stations available from the
>>FCC's Compliance Bureau web page menu. I find it interesting that altho
>>the rules regarding operator licensing have changed over the past dozen
>>or so years, the FCC still expects very similar standards to be met.

And then I said:

> I think the answer lies in a review of licensing standards
>from a historical perspective. When wireless telegraphy first
>came into being, there was no operator licensing (or even station
>licensing). The resulting bedlam, non-cooperation, anarchy, or

....blah-blah-blah, ending up talking about licensing of
operators for the Broadcast Service *only*.

I failed to point out that the situation is somewhat
different in regards to Maritime operation, because the safety of
life and property is at stake. That is why the commercial
Radiotelegraph Licenses still exist and are currently required. The
requirement will be dropped (or rather, changed) when the Global
Maritime Distress & Safety System is fully implemented in 1999.
At that point, a shipboard operator will probably require a GROL
with Radar Endorsement plus the GMDSS Operator and GMDSS
Maintainer licenses. No radiotelegraph requirement, because
there won't *BE* any radiotelegraph installed - no main
transmitter, no back-up, no Auto-Alarm, nuttin'. Just a SATCOM
terminal. But the operators still will require *SOME* kind of
license, for reasons stated in sentences two and three above,
which again is different from the Broadcast Service.

Personally, I (and a lot of others) think they're putting
all their eggs in one technological basket and sooner or later a
disaster may result....and I say that as an engineer who works
with the latest leading-edge electronics technology.

There is a reason why my Grandfather's old claw hammer looks just like a modern one.....and works the same way.....and just as well.

73,

Paul, K4MSG

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: FCC Commercial License - Followup
Message-ID: <Pine.SV4.3.91.960529124052.252450-100000@uhunix3>

On Wed, 29 May 1996, Paul H. Bock wrote:

> There is a reason why my Grandfather's old claw hammer looks
> just like a modern one.....and works the same way.....and just
> as well.

Those few words contain so much truth...

73,

Jeff KH2PZ/KH6

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: w0ogh@ix.netcom.com (Larry Godek)
Subject: re: for sale
Message-ID: <199605290303.UAA22730@dfw-ix6.ix.netcom.com>

Of the manuals I listed last week, the TR-4, HQ-110, HRO-7 and NC-100 manual have been spoken for. Thanks to those of you who inquired.

Larry W00GH@ix.netcom.com

From boatanchors@theporch.com Wed May 29 13:24:12 1996
Subject: For Sale - COLLINS R-391

I NEED CASH!

I have a beautiful Collins R-391 General Coverage Receiver for sale. This unit is equivalent to the 390A but also includes a 9 Channel Memory/Auto Tune Feature. I have the original TM and a 99% complete spare tube set (Missing the ballast tubes).

Buyer must pay shipping and insurance.

The only modification to this radio is one of the antenna connectors has been changed to a PL-259 (No new holes! Have the original connector)

\$350 Firm.

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 21:34:44 1996
Subject: FOR SALE Hallicrafters SX42

FOR SALE - Hallicrafters SX42 in Excellent Condition, Original Manual, Original Speaker, will ship anywhere. \$250 US

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Cliff Blakey" <Cliff.Blakey@dns.cyberlink.bc.ca>
Subject: Re: FS literature
Message-ID: <199605281832.MAA17001@dns.cyberlink.bc.ca>

Fellow BAers;

Thankyou for the inquiries. A lot of the books have been sold, but still have a few left, as follows:

1 ea AFP 50 "A study course for Communications & Radar Technicians", section 1, part 3.

1 ea AFP 50 "A study course for Communications & Radar Technicians", Volume 2

2 ea AFP52-8 "Radar Circuit & Analysis"

1 ea TM11-661 "Electrical Fundamentals (Direct Current)"

2 ea TM11-662 "Basic Theory & Application Of Electron Tubes"

All books are complete with no tears and in good shape.

Asking \$10 ea U.S. plus shipping

Also found the following to clear out:

"Principles of Radio" fourth edition, by Keith Henndy, 1942, over 500 pages. \$10

"Audels New Electric Library" volume 1. Deals with electricity and motor rewinding. Lots of pictures. Reprinted in 1942. Almost 500 pages. \$5

"Elements of Radio" by Marcus & Marcus. Volume 1, 1943 for the Armed Forces. A home study course in basic radio. Over 300 pages. \$5

"Amateur Radio Builder's Guide" by Gernsback 1947. \$1

"Junior Electricity" by Gordon Darling, 1935. Basic electricity \$1

"Elements of Electricity" by William Timble, third edition, 1937. Theory and problem solving general electricity and electron tubes etc. \$5

"Mathematics Essential To Electricity And Radio", by Lt. Com. Nelson Cooke Over 400 pages. \$5

All above books have normal wear but in good shape (ie complete, no noticeable torn pages)

"Outercom" instruction and service manual by Hammarlund, model CU-10A control unit and RA-10A remote control adapter. Well used but is complete. \$2

2 Radio & Television News magazines, 1 March '56, 1 April '54 \$00.50 ea

All prices are U.S. plus shipping.

Thanks,

Cliff

Cliff Blakey
Western Wireless Company:
2310 34th Ave. N.
Cranbrook, B.C. V1C 4L6 Canada
Tel/Fax 604-489-5874
VE7WWC
cblakey@cyberlink.bc.ca
Preserving Yesterday's Wireless Heritage.

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: "Cliff Blakey" <Cliff.Blakey@dns.cyberlink.bc.ca>
Subject: Re: FS literature
Message-ID: <199605292058.0AA12356@dns.cyberlink.bc.ca>

Fellow BAers;
Thankyou for the inquiries. A lot of the books have been sold, but
still have a few left, as follows:

1 ea AFP 50 "A study course for Communications & Radar Technicians",
section 1, part 3.

1 ea AFP 50 "A study course for Communications & Radar Technicians",
Volume 2

2 ea AFP52-8 "Radar Circuit & Analysis"

1 ea TM11-661 "Electrical Fundamentals (Direct Current)"
2 ea TM11-662 "Basic Theory & Application Of Electron Tubes"

All books are complete with no tears and in good shape.

Asking \$10 ea U.S. plus shipping

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"Elements of Electricity" by William Timble, third edition, 1937.
Theory and problem solving general electricity and electron tubes
etc. \$5

"Mathematics Essential To Electricity And Radio", by Lt. Com. Nelson Cooke
Over 400 pages. \$5

All above books have normal wear but in good shape (ie complete, no
noticeable torn pages)

"Outercom" instruction and service manual by Hammarlund, model CU-10A
control unit and RA-10A remote control adapter. Well used but is
complete. \$2

2 Radio & Television News magazines, 1 March '56, 1 April '54 \$00.50
ea (both worn)

All prices are U.S. plus shipping.

Thanks,
Cliff

Cliff Blakey
Western Wireless Company:
2310 34th Ave. N.
Cranbrook, B.C. V1C 4L6 Canada
Tel/Fax 604-489-5874
VE7WWC
cblakey@cyberlink.bc.ca
Preserving Yesterday's Wireless Heritage.

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: MEC <danmec@inet.uni-c.dk>
Subject: Re: FS literature
Message-ID: <Pine.3.89.9605292228.A12350-01000000@inet.uni-c.dk>

I have 2 Harrison Radio catalogs in mint condition for sale.

Both for 40 dlrs shipped.

73 rag oz8ro

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: spr@earthlink.net (Scott Robinson)
Subject: FS: BC-603-D
Message-ID: <v01530500add102256d27@[153.37.85.91]>

BC-603-D receiver for sale. As found, clean, untested. No external power supply included. Schematic attached to the side of the radio. It's modest in size but has that familiar boatanchor heft about it.

\$35 plus UPS from San Francisco, California.

NOTE: This isn't my radio. However, I know the seller well and he is 100% trustworthy. But PLEASE CONTACT HIM, NOT ME!!

John Wentzel
Aladdin Radio
(415) 731-1920

Please call between 9 AM and 8 PM Pacific daylight savings time ONLY.

Thanks,

Scott Robinson
spr@earthlink.net

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: Roy Morgan <morgan@speckle.ncsl.nist.gov>
Subject: FS: ARRL Antenna Compendium Vol. 3
Message-ID: <9605292055.AA06410@speckle.ncsl.nist.gov>

For sale:

NEW! ARRL Antenna Compendium Volume 3.

\$10.00 post paid.

-- Roy Morgan/Building 820, Room 562/Gaithersburg MD 20899
(National Institute of Standards and Technology, formerly NBS)
301-975-3254 Fax: 301-948-6213 morgan@speckle.ncsl.nist.gov --

From boatanchors@theporch.com Wed May 29 13:24:12 1996
Subject: FS: Boat Anchor Radio Stuff

BC-442 Antenna Relays (no vac. capacitor) \$20 ea.

803 xmtr tubes 1 new in box, 1 used good \$35 for the pair

BC-453-B receiver, aluminium finish, excellent condition, with rack, shock mount, and the correct matching spinner knob. \$65

R-25/ARC-5 1.5 to 3.0 Mc receiver, with spinner knob, and rack. Receiver is black wrinkle finish and is the "stabilized" version with the letter S inside a circle ink-stamped on the front panel. It is in new condition, but less the original little plug-in sub-panel on the front. It does have a homemade sub-panel with BFO switch and volume control pirated from an old ARC-5 control box-not original, but very nicely done and finished in black-wrinkle paint. \$85

Chip Owens, NW00
owens@stout.atd.ucar.edu

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: aculbert@pps1-po.phyp.uiowa.edu
Subject: FS: CRYSTALS
Message-ID: <199605282029.PAA15574@ns-mx.uiowa.edu>

Because of the rotten weather during the past Holiday weekend, I was able to devote some attention to shack and garage cleaning. I came across a few items that maybe some BA types would have an interest in.

CRYSTALS -- 4 different types

1) FT-243 type (0.050" pin diameter at 0.486" spacing)
20, frequencies ranging from 4450 Kcs to 14.700 Mcs. (7 in the 40 meter ham band)

2) ?? Type (0.095" pin diameter at 0.486" spacing)
7 marked with frequencies in the 28 and 29 Mcs range

3) CR-1A/AR type (0.125" pin diameter at 0.486" spacing)
6 different frequencies in the 6 to 9 Mc. range which I think were for VHF aircraft radios

4) HC-1 type (0.125" pin diameter at 0.750" spacing)
15 different frequencies in the 2 to 4 Mc. range (none in the 80 meter band)

\$30 for the lot shipped in the lower 48.

RELAYS

Mercury wetted - Single pole, 115 volt AC coil, rated 50 amperes.

\$ 10 each shipped in the lower 48

Al, K0AL

allan-culbert@uiowa.edu

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: Michael Crestohl <mc@shore.net>
Subject: FS: Johnson Kilowatt Matchbox - best offer over \$200.00
Message-ID: <199605282013.QAA25775@northshore.shore.net>

I have a E F Johnson Kilowatt Matchbox antenna tuner in pretty good condition for sale. Cosmetically it is 6-7 on a scale of 10. It is clean but has some scratches but could probably be cleaned up to look very good. It has no holes or modifications but it is definitely not "collector grade" either. But it is an excellent working antenna tuner that will tune balanced (open wire) line, random-length wire and coaxial-fed antennas to the full legal power limit and then some. I have seen these selling at Dayton in beautiful condition for over \$400.00! I will accept the best offer for this one over \$200.00 and would prefer to deliver it to the Rochester NY Hamfest this coming weekend. However if I had to ship it the shipping costs would be extra.

If interested please reply by e-mail.

73,

Michael Crestohl, KH6KD/W1
mc@shore.net

From boatanchors@theporch.com Wed May 29 13:24:12 1996
Subject: FS: WW2 RBB-2 receiver

FOR SALE: RBB-2 receiver, matching 120V AC supply and interconnecting cable.

You must pick up and pay cash. I won't ship cause it's too big and heavy.

\$400 firm.

Chip Owens, NW00
owens@stout.atd.ucar.edu

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: For Sale - COLLINS R-391
Message-ID: <92116.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All
replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: ktrummel@mail.orion.org <ktrummel@mail.orion.org>
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FOR SALE Hallicrafters SX42
Message-ID: <77277.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: pwright@awinc.com <pwright@awinc.com>
Newsgroups: usenet.rec.radio.swap
From: boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS: Boat Anchor Radio Stuff
Message-ID: <92126.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: Chip Owens <owens@stout.atd.ucar.edu >
Newsgroups: usenet.rec.radio.swap
From: boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS: WW2 RBB-2 receiver
Message-ID: <92136.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: Chip Owens <owens@stout.atd.ucar.edu >
Newsgroups: usenet.rec.radio.swap
From: boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: Hallicrafters S-30 Radio Compass
Message-ID: <92131.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: Greg Farmer <gif1@rsvl.unisys.com>
Newsgroups: usenet.rec.radio.swap
From: boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Dick Dillman" <ddillman@igc.apc.org>

Subject: Fwd: HQ-110 FS or trade
Message-ID: <92121.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: George Rybicki <george.rybicki@lerc.nasa.gov>
Newsgroups: usenet.rec.radio.swap
From: boatanchors@theporch.com Wed May 29 13:57:06 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: SCOTT MODEL RCH LF RECEIVER
Message-ID: <40579.ddillman@igc.apc.org>

NOTE The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: Clyde M. Sakir <csakir@azstarnet.com >
Newsgroups: usenet.rec.radio.swap
From: boatanchors@theporch.com Wed May 29 21:34:44 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Galvanic Corrosion 101 Lecture
Message-ID: <Pine.ULT.3.91.960529175249.9658A-100000@dua150.kpt.emn.com>

On Wed, 29 May 1996, a thread got started on galvanic corrosion...

I think the topic came up via WB6ZWC who asked for a friend:

> > >Can someone tell me the proper way to connect copper or tinned
> > >copper to a galvanized tower to avoid electrolytic or
> > >other corrosion problems?

Bobbi Barmore, KB9GXX, replied, quite correctly:

> Answer one: Can't be done, don't do it. (Forsooth, there is no really
> long-term answer. Whatever is done will not last as long as the Parthenon).

Even gold corrodes, and I have this interesting solvent that even attacks Teflon...

> Answer two: Soldering can work, but it adds yet one more metal to the
> electrochemical equation and, barring input from Our Actual Chemical
> Engineer (who is uniquely qualified 'mongst the Boatanchorists), I'll

> offer that it is probaby more trouble than it is worth. The flux can
> *really* make for a festering witches' brew, and defluxing, de-defluxing,
> then getting all the moisture out is mildly tricky. (baking-soda water,
> distilled water--a *lot*--, alcohol and "carbo chlor" in that order will
> prolly do it, but note that most of that list are things that should not be
> dripping into the back yard).

Speaking as that ChE, this method MIGHT be made to work but you would first need to remove the zinc galvanizing before tinning the steel and then soldering on the copper. With care you could probably get this connection to last a reasonable length of time, but it will still eventually corrode. And the area where the galvanizing is removed will rust - especially between the solder and the zinc. Soldering fluxes are naturally corrosive to remove oxide layers. If this flux remains after the soldering, it will promote corrosion.

> So, Answer three:
> The simple, brute-force way! Get the copper and the tower leg
> *clean,* as in shiny-bright. Drill a hole or holes in 'em, find bolt(s),
> nut(s) and nice toothy lockwasher(s) to suit--a flat washer or two would
> be nice as well--and put it together *tightly,* with the toothed washer(s)
> betwixt copper strap and tower, and for the fancier taste, flat washers
> under the head of the bolt and the nut. Really ritzy folk may want to put
> a split "shakeproof" washer under the nut, too.
> Crunch it down nice and *tight.* Use a couple of wrenches, not rusty
> gas pliers and that bent screwdriver the kids found in a vacant lot, and
> *paint* it with a good grade of enamel paint right after you get it put
> together. Neatness does not count, glop that paint on good and get it in
> all the cracks, crevices and gaps.
> Don't put off the painting! You can't really stop dissimilar metals
> from Doing Things, but you can slow 'em down a *lot.* The best way to do
> that is to keep air and water out of the point of contact, and thus the
> paint.
> ...Anyway, that's what we did with AM BC station tower connections,
> typically something like 1/4" to 1/2" copper water pipe bolted to the base
> of the steel or galvanized tower, and it held up nicely. It didn't last
> forever--in 1986, the 1937-vintage South tower at WNDE was on its second
> or third connection since installation. But it's pretty good performance
> for a few minute's work every 15 or 20 years! :)

I would add only a few minor changes to this procedure. To begin with, I would not drill through the tower. The inside of the vertical tubing in ham type towers seems to be a virtual magnet for condensed water. Since you cannot get the paint on the bolt on the inside, it might be best to avoid the bolt through the tower. If you must do this, use a galvanized bolt. Also be sure the tower legs have drain holes or another way of draining. Also consider degreasing all the metal parts before applying the paint. Use oil- (or alkyd-) base enamel. Split-type compression

ground clamps available from electrical supply dealers will fit many smaller tower legs well if you want to avoid the drilling and bolting. Bobbi's advice about having everything shiny bright is important. But don't abrade off the zinc galvanizing in the process!

Tom Clarke, KE4VFH, has the right idea but probably the wrong material:

- > Reminds me of a dissimilar metal problem I had yesterday -
- > copper and lead next to a lead acid battery under a car hood.
- >
- > After replacing the eaten up terminal and fuming battery, I sprayed
- > this purple stuff on the connection that is supposed to protect
- > the terminal from fumes and maintain the contact.
- >
- > I wonder if the same purple spray protectant would work on tower
- > connections. I forget the brand, but it's automotive store stuff.

If this is the same stuff I saw sold recently, it is cellulose acetate lacquer. It might handle dilute battery acid, but for this particular use I would still use a good outdoor grade of oil paint.

Most readers should stop at this point and go to the next posting as it is time for me to go into "lecture" mode..... :-)

What is happening at the copper/zinc/steel joint is galvanic corrosion. This occurs when two dissimilar metals are in contact in an electrolyte. The more noble metal, the cathodic metal, causes electrochemical attack of the less noble metal, or anodic metal. Galvanizing is a good example of this that most of us are familiar with. Steel is coated with zinc to protect it; the zinc preferentially corrodes protecting the steel underneath. Even small scratches through the zinc are still protected.

The extent of galvanic corrosion depends on the relative surface areas of the two metals to some extent, but mainly it depends on the difference in the electrochemical potential between the metals in the electrolyte. You can find huge tables of these electrochemical potentials in many chemistry books, but to simplify things, I have duplicated a table from my "Chemical Engineers' Handbook, 4th ed" below.

In this table, metals toward the top of the table will corrode preferentially to metals lower in the table. The closer two materials are in the table, the less likely galvanic corrosion will occur between the two. Zinc is above iron or steel so it should be apparent why galvanizing works. But note that copper is well below steel. The presence of copper promotes the corrosion of the steel. Once the zinc coating over the steel is gone, which will occur more quickly with the copper present, the steel will corrode.

Often to join two dissimilar metals, an intermediate metal may be used. If this intermediate metal is located between the other two metals in the galvanic series, corrosion will be lessened. Thus the lead-tin soldered connection may be fairly stable - but not with the zinc present!

If you study the table, you can see why many steel screws are cadmium plated. You can also see why silver, gold, and platinum are so corrosion resistant. It is interesting to note that many alloys appear twice in the table depending on their state. I do not want to discuss these materials here, but I do want people to realize that the various series of stainless steel are not nearly as corrosion resistant as many would believe. Deeper study of the table will show why cadmium plated steel parts work OK in conjunction with aluminum - until the cadmium layer is mechanically breached. It also shows why using steel set screws on brass shafts can cause such problems.

The real key here is to pick appropriate materials when they have to be in contact with each other, and to eliminate the possibility of the materials being immersed in an electrolyte. This is the reason for the generous application of paint Bobbi suggested. If the joint is kept perfectly dry, it will not corrode.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

GALVANIC SERIES OF METALS AND ALLOYS

[Corroded End (Anodic or Least Noble Metal)]

Magnesium
Magnesium Alloys
Zinc
Aluminum 2S
Cadmium
Aluminum 17ST
Steel or Iron
Cast Iron
Chromium Iron - Stainless 410 (active)
Ni-Resist Cast Iron
18-8 Chromium Nickel Iron - Stainless 304 (active)
18-8-3 Chromium Nickel Molybdenum Iron - Stainless 316 (active)
Lead-Tin Solders
Lead
Tin
Nickel
Inconel/Nichrome Nickel Chromium alloy (active)
Hastelloy C-276 alloy (active)

Brasses
Copper
Bronzes
Copper Nickel alloys
Monel Nickel Copper alloy
Silver Solder
Nickel *passive)
Inconel/Nichrome (passive)
Chromium Iron - Stainless 410 (passive)
Titanium
18-8 Chromium Nickel Iron - Stainless 304 (passive)
18-8-3 Chromium Nickel Molybdenum Iron - Stainless 316 (passive)
Hastelloy C-276 alloy (passive)
Silver
Graphite
Gold
Platinum

[Protected End (Cathodic or Most Noble Metal)]

>From 4th ed. Perry's "Chemical Engineers' Handbook"

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: RE: GASSY 6SG7 VS. BEANS
Message-ID: <9605291046.aa25246@pcusa01.ecunet.org>

> The problem is that now I don't have a gassy tube to
> use as a "standard". I'm thinking of taking one of the
> weak ones and put it on a power supply and over-stress
> the dude, running it with red-hot plate. They always
> used to say that would make a tube gassy (when I was
> a kid trying to get more power out!).

Trouble is you can't see the glow of the gas thru a metal tube!

Gas can be caused truly by gas in tube, operating too hot and also by
cathode material becoming deposited on the grid structure. Then if the
grid gets hot enuf, I guess it starts 'cathoding'.

-John Sehring (05/28/96 8:20 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: Peter Ferrand <petef@sprynet.com>
Subject: Globe Champ 350 manual needed

Message-ID: <2.2.32.19960529211201.006cb914@m3.sprynet.com>

To elaborate on the title, if I can survive getting it out of my car trunk a Globe Champion 350 will have a new home at my shack. This is one of my smaller dreams come true, as I've never seen one of these 'cept for the ads and the ER article.

First order of business is a manual. Do you have one you could send me and I'll copy it? Or you copy yours and send me the copy. I'll pay the usual costs.

Any other tips or legend about this rig I'd also welcome.

tnx es 73,
-Pete
WB2QLL
petef@sprynet.com

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: Nick England <nick@cs.unc.edu>
Subject: Globe Champ Deluxe xfmr
Message-ID: <199605281401.KAA18163@altair.cs.unc.edu>

I have a Globe Champ Deluxe minus power transformer. Does anyone know the xfmr part number ? Have a manual or schematic you could copy for me ??
I have a spare Globe Scout Deluxe and want to figure out if I can swap the xfmr from it into the Chief. OR do you have a spare xfmr sitting around (wild shot I know) ?

thanks & 73,
Nick KD4CPL

Nick England nick@cs.unc.edu KD4CPL
<http://www.cs.unc.edu/~nick>

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: Nick England <nick@cs.unc.edu>
Subject: Globe Chief (NOT Champ) Deluxe
Message-ID: <199605292031.QAA27555@altair.cs.unc.edu>

Looking for power transformer info for Globe Chief (NOT Champ) Deluxe !!
Sorry for the error.
thanks & 73,

Nick KD4CPL

Nick England nick@cs.unc.edu KD4CPL
http://www.cs.unc.edu/~nick

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: lstolz@tekelec.com (Lynn Stolz)
Subject: Re: Globe Chief (NOT Champ) Deluxe
Message-ID: <9605292059.AA28799@london.oh.tekelec.com>

Nick KD4CPL said:

>

> Looking for power transformer info for Globe Chief (NOT Champ) Deluxe !!

>

The power transformer in the Globe Chief Deluxe is its weakest part. I have seen more of these at hamfests here in Ohio than any other WRL transmitters. Most had shot power transformers. I have a ham friend that has TWO Deluxes, one with a dead transformer and another with an 'external' tranny.

Nick, you might consider using a transformer from another junker transmitter or old TV (wish I had kept a bunch of 'em now). If you find a good tranny from another old Deluxe, treat it carefully.

Lynn N8AJ

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: Al Klase <alklase@postoffice.ptd.net>
Subject: Re: Grid dip low freq. coils
Message-ID: <199605281344.JAA08855@ns1.ptd.net>

At 12:37 PM 5/27/96 -0500, Hank van Cleef wrote:

>Measurements made a 59LF, but I do not know what they did to tailor it

>for lower frequency work.

>

I consider myself fortunate to own both a Measurements Model 59 and a 59LF. I don't have documents for the LF. (Any help out there?) It appears to be a standard 59 with a low frequency head and coils. The head contains a 6C4 tube and a single section 500pF variable cap. The coils are universal wound directly on substantial (approx. 3/4") iron slugs, and involve a tapped primary and a separate feedback winding. They are installed inside standard 5-pin polystyrene coil forms. This is in sharp contrast to the standard 59 which uses untaped coils and a split 110pF per section tuning cap.

Four coils cover 100-250 KHz, 250-550Khz, .55-1.5 Mhz, and 1.5-4.5MHz. I think it would be a Herculean task to replicate these coils.

73, A1

A1 Klase - N3FRQ
alklase@postoffice.ptd.net
Flemington, NJ

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: dma@IslandNet.com (Jan Skirrow)
Subject: Grid Dip Meter Advice Needed
Message-ID: <m0uOUfP-000W8PC@comm.amtsgi.bc.ca>

Hi Gang ...

I have been trying to find a nice good quality BoatAnchor one of these for some time, with no luck so far. Maybe this weekend at Seaside????

Anyway, should I stick to my search, or pop for one of the sand state models such as the MFJ 201 or 203? My dilemma, but any comments welcome.

Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: sinned@VNET.IBM.COM
Subject: GSB-100 For Sale
Message-ID: <199605291607.LAA01218@uro.theporch.com>

Anyone interesred in this? It's complete + original manual. I haven't tested it on the air yet, but it lights a dummy load. Only appearent problem is cosmetic; the meter face scale markings are faded and difficult to read. I'm in the Dallas area, so anyone comming to Hamcom can power it up at my QTH before heading home with it. The owner (not me) thinks it's worth about \$150, but being a reasonalbe guy, all offers will be considered. BRING CASH.

Dennis KC5EPZ
sinned@vnet.ibm.com

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: jproc@worldlinx.com
Subject: Haida Restoration Photos
Message-ID: <Chameleon.4.01.2.960527234617.jproc@>

Dear BA'ers,

Through the courtesy and effort of fellow BA'er John Brewer, I have posted additional photos of Haida's restored radios. To view all of the photos, access URL:

<http://www.zynet.com/~johnb/haida.htm>

To only view the new photos, access URL:

<http://www.zynet.com/~johnb/haida1a.htm>

The photos have been optimized for viewing with Netscape. Results with other browsers may be unpredictable. There are 14 photo panels in total.

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: [jproc@worldlinx.com](mailto:jproc@worldlinx.com)  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Wed May 29 13:24:12 1996
Subject: Hallicrafters S-30 Radio Compass

I have a Hallicrafters S-30 Radio Compass in good condition without power supply to sell. The Dachis book says it is rare and gives no value. Any offers?

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: Nick England <nick@cs.unc.edu>
Subject: Hamfest report - Durham NC
Message-ID: <199605281616.MAA19002@altair.cs.unc.edu>

Durham NC hamfest is a medium size event held under a parking deck at a local shopping mall - good idea as it is drippy but OK in the rain and shady on a hot summer's day. I'd guess maybe 200 tailgate spaces. Here are some recollections - some other boatanchorites in attendance (John WB50AU, Rhett, Boat Anchor Bob NA4G hisownself, who else?) please add comments and more info.

Globe Scout Deluxe - mint - \$60
HiBander \$30
HiBander \$50
Johnson Valiant - parts unit - \$80
Ranger II nice \$150
Ranger -fair \$125
Viking II - fair \$110 unsold
122 VF0 - fair \$25 unsold
Heath - lots of SB series, HW series at reasonable prices
DX-40 mint how little did you pay, John?
Warrior - fair \$350 unsold
Collins - 32V-2 mint (N4X0) \$350?
Hammarlund SP-600 mint \$480?
Drake - several T-4, TR-4 reasonable
Ameco AC-1 trade (I got this one!)
some Swan gear at reasonable prices
Hallicrafters - can't remember seeing anything
Military - can't remember seeing anything

good selection of parts and tubes - all in all a fine event

Then I went to a local BC radio group swap meet in Raleigh NC the same morning (VRUS - Vintage Radio Unique Society) lots of interesting broadcast gear (from Atwater-Kent breadboards to Catalins) plus the following
Hallicrafters HT-37 xmtr plus Heath Mohawk rcvr - \$80
(I couldn't resist)
HRO-5 with coils and speaker - very nice - \$250
HRO-50 with coils \$150
several Swan and Galaxy rigs at very nice prices
my experience at such events has been pretty good - you get to see different gear and the ham stuff is usually pretty reasonably priced.

I'm sure I left out a bunch of stuff.

73 & have fun,

Nick KD4CPL

Nick England nick@cs.unc.edu KD4CPL

<http://www.cs.unc.edu/~nick>

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Jim Zellmer <zellmer@raccoon.com>
Subject: Hello, been reading the mail.
Message-ID: <199605290355.WAA04695@slip1.raccoon.com>

Hello,
I have been getting the boatanchor list for about a month now and have enjoyed it very much. The threads are varied, interesting and often have new information for me.

I have been a ham for about 11 years and started bringing home orphan BAs about 9 years ago. I have swapped a few pieces around but most things have stayed. The collection is mostly Hallicrafters, but I have one or two peices of some other marques. I could summarize the collection as follows;

Drake: R4B, TX4B, MN2000 Tuner
Globe Chief
Hallicrafters, SX101, HT32, HT33A SX115, HT37 SX117, HT44 FPM300
Hammarlund HQ180
Johnson KW Matchbox, Invaders 200 & 2000
National NC173, NCX1000
Yaesu FT560
HB 80-10 Mhz AM Rig pr 811 mod. & 813 Final
Military Gear includes
Collins ART-13
Federal Telegraph SRT-15 (700 lb. basement warmer. draws 15amps for filaments)
BC221

I have got about half of this stuff working and the rest is projects that should keep me busy in the basement for a long time. The XYL keeps busy with her dolls. With two collectors and four kids, its a good thing I have a three story house.

73, Jim Zellmer, KA0VSL

'73's

Jim Zellmer Email: zellmer@raccoon.com
639 40th Street Phone: 515-279-4911
Des Moines, IA 50312 HRC: ka0vsl

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: jcreid@CCGATE.HAC.COM
Subject: HP meets Tektronix
Message-ID: <9604288333.AA833326273@CCGATE.HAC.COM>

Warning! BA content is limited, delete at will!

To all those who responded to my question regarding interfacing a Tektronix 2465 scope to an HP141T spectrum analyzer via an HP8750 storage-normalizer, this is very do-able and the operation does actually work as described in the 8750 manual. The hard part is finding the manual and the cables. The whole setup lets you view and/or store spectra from the analyzer on the Tek scope. Kinda handy if you want to watch for drift or signal anomalies. Now back to the real tube stuff...

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Wed May 29 13:24:12 1996
Subject: HQ-110 FS or trade

For sale or trade Hammurlund HQ 110 with manual copy, nice shape but not perfect. I gave it a quick check and it works on all bands, modes. This is a nice ham-band only receiver, 160-6m and includes a q-multiplier for enhanced selectivity. I would like to trade it for or toward a SX-101 or may sell outright but if you want to swap you can try me. 73 George KE8YX

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: george.rybicki@lerc.nasa.gov (George Rybicki)
Subject: HQ-110 FS or Trade
Message-ID: <v01510102add0a879401a@[139.88.134.25]>

For sale or trade Hammurlund HQ 110 with manual copy, nice shape but not perfect. I gave it a quick check and it works on all bands, modes. This is a nice ham-band only receiver, 160-6m and includes

a q-multiplier for enhanced selectivity. I would like to trade it for or toward a SX-101 or may sell outright but if you want to swap you can try me. 73 George KE8YX

All views expressed here are mine and not those of NASA or the US Government.

George C. Rybicki (KE8YX) Photovoltaics Branch NASA Lewis
Research Center
21000 Brookpark Rd. MS
302-1 Cleveland, Ohio 44135

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Jim Zellmer <zellmer@raccoon.com>
Subject: HQ180 needs knobs
Message-ID: <199605290355.WAA04698@slip1.raccoon.com>

I picked up a HQ180 w/clock at Des Moines a few weeks ago. The unit had a heavy covering of dust and smokers goo but is cleaning up nicely. Electricly, I had to replace one 6BE6. Haven't had to tweak it. Sensitivity is good on all bands.

Only the two big knobs are original. Every thing else is a more modern knob with an aluminum inset and or skirt. Does any one know where I can find a set of original knobs for this rig?

TNX ES 73

Jim Zellmer, KA0VSL

Phone 515-279-4911 (home)
515-274-1561 (work)
515-271-7207 (fax)

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Jim Zellmer <zellmer@raccoon.com>
Subject: HT-33A and PL172
Message-ID: <199605290355.WAA04702@slip1.raccoon.com>

I have been bringing a Hallicrafters HT-33A back on line. It was working about six years ago when I packed it up to move to a new QTH. After

checking the HV, screen and grid voltages I tried to load the amplifier up. The PL172 grid current looks like it wants to run away. I have not had a lot of experience on this amplifier, but have heard the PL172 is kind of pricey. Does any one any information on the PL172 or possible replacements? I might add the the HT-33A had been upgrade to HT-33B specs at some point (Six 0A2s for screen voltage)

TNX ES 73

Jim Zellmer, KA0VSL

'73's

```
*****
Jim Zellmer           Email: zellmer@raccoon.com
639 40th Street       Phone: 515-279-4911
Des Moines, IA 50312  HRC: ka0vsl
*****
```

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: MICHAEL@ecs.umass.edu
Subject: Re: HUGE HAM ESTATE SALE !!
Message-ID: <01I58L1S439UK100GK@ecs.umass.edu>

>HUGE HAM ESTATE SALE !!
>LITERALLY TONS of ham gear from 50 years of active hamming !

Well, I drove down to Connecticut on Saturday, and again on Monday, and filled up the car both times. It was, sadly, one of those sales that have been reported previously in this group by, for example, Tom Adams, where there's just too much stuff to arrange for an orderly dispersal, unless it's done "pre-need", as they say. This guy, Ed, W1RJA, was a major packrat, and into all sorts of things--had a small TV production studio in his house as well as a ham shack and maybe fifty or sixty domestic radios and speakers from the '20s, '30s and '40s.

To give you some idea, I picked up the following:

- BC-221-M Frequency Meter
- HP 5245L counter
- AN/URM-25D RF Signal Generator
- I-177 tube tester with MX-949 A/U outboard socket adapter
- HQ-140 receiver
- and five 10BP4 picture tubes (my old RCA 630 television should be running well into the 22nd century now!)

Gang--there's lots of stuff left, and it's all going into the dumpster on Friday. Lots of HP, Heath and Eico test equipment. A box of dozen or so Meissner 10.7 Mc IF coils; meters, caps, sockets, etc., etc. I saw three Tek scopes that I'm afraid are going to the scrap pile: a 512 and two 535's. QST magazines--probably a nearly complete 50 year collection--I saw complete sets of 1992, '93, '94 for sure in one box, and many many more boxes of these dating back at least to 1942.

If you're not in New England, and are interested in any of this, send a message to the widow, Rae Bristol, K1lXD, whose e-mail address is RaeSB2aol.com. She may be willing to hold on to a particular item, pending your check, but she's into major moving out mode, I can assure you. If you're nearby, it's really worth checking out. Best to check with Rae before coming by, as the sale ended yesterday evening. I didn't see any of the BA crew during my two visits, but I don't know everyone by sight. Did anyone else stop by this weekend?

Boy, what an object lesson.

John Michael michael@ecs.umass.edu

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Billy Wiggins <B_Wiggins@wow.com>
Subject: Info needed PP-2352
Message-ID: <199605272154_MC1-3E8-BE40@compuserve.com>

Greetings BA fans

Does anybody know what the voltage adjust control on the front of the PP-2352 inverter does? I have adjusted it and I see no difference in output voltage on phase a, b or c.

Also does anyone have a manual on this inverter?

Billy
WA4GKI

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: sinned@VNET.IBM.COM
Subject: Japanese pilfering
Message-ID: <m0uOTpU-000D0MC@knuth.mtsu.edu>

Now that we all know the several sources of America's social and economic problems, it's time we analyze the "Japanese pilfering". When BA's are exported to another country, there would seem to be little chance that that these items will ever again be reasonably

accessible to the majority of domestic BA enthusiasts. Expressing regrets about this export activity is what's really going on. It reminds me of the feeling I get when I hear about one of the older hams going SK; there's a sense of loss. "Japanese" just happens to accurately describe those exporters in the situation mentioned. Two pages of political venting is truly inappropriate for a radio hobby list.

Dennis KC5EPZ

From boatanchors@theporch.com Wed May 29 13:57:06 1996

From: "D.D. Todd" <dube3@n-link.com>

Subject: Re: Link Coupling Design

Message-ID: <31AAA52B.3363@n-link.com>

Henry van Cleef wrote:

>

> I sometimes wonder, with all the yelping about CW vs. no CW for
> amateurs, whether an exam on Clerk Maxwell's stuff for higher-grade
> licenses would be a suitable substitute.

And Kirchoff, too, among others. Unfortunately the tide seems to be running the other way. Now that Morse code is no longer required for a ticket, pressure is building to simplify (or in some cases eliminate) the technical aspects of exams.

Furthermore, we BA folk represent the last vestiges of vacuum tube technology understanding in the Ham ranks. The subject is not mentioned anymore that I know of.

Future owners of our treasured BAs will either trash them or they will have to enlist the help of the "glass audio" crowd.

--

73,

Dube Todd AB5AP dube3@n-link.com

If we had to tolerate in others all that we permit in ourselves, life would be completely unbearable.

- Georges Courtelline

From boatanchors@theporch.com Wed May 29 21:34:44 1996

From: dgf@netcom.com (David Feldman)

Subject: Looking for ancient ARRL handbooks
Message-ID: <199605292054.NAA25302@netcom12.netcom.com>

Looking for any year 1926-1939 EXCEPT for 31 and 33.
Pls advise by e-mail if you have any available.
73 Dave WB0GAZ dgf@netcom.com

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: MAB@delphi.com
Subject: Low-Frequency Coils for James Millen GDMs
Message-ID: <01I57T689K4I984RN5@delphi.com>

Low-Frequency Coils for James Millen GDMs (Grid Dip Meters)

I've noticed several posts inquiring about low-frequency coils for James Millen Grid-Dip Meters, so I'm submitting what I know including the results of measurements made on some of these coils.

I know for certain that four coils were manufactured for use with the various tube model GDMs including the 90651 and the 90661. They are:

46702 : 925 to 2000 kc	46703 : 500 to 1050 kc
46704 : 325 to 600 kc	46705 : 220 to 350 kc

In the James Millen Catalog 7210 dated 1972, in the description for the 90651-A GDM, there is mention of a 5th coil for coverage down to 165 kc, but I have no data for this coil.

I have the 46702 and 46703 coils (not for sale) and use them with the 90652 SSD (Solid-State Dipper). This model uses an RCA 3N128 MOS-FET in place of the 9002 tube. I've never been able to ascertain if the 90652 SSD uses the same coils as the tube model GDMs, but the 46702 and 46703 coils work reasonably well and don't stray too far from the frequency vs dial rotation curves supplied with the coils (BTW, I use a Heath IB-1103 Frequency Counter (which counts as a BA 'cause it uses Nixie tubes in the readout!) with an active sniffer probe (capactive coupled probe with a high-gain, wide-bandwidth amp between it and the counter input) to monitor the exact SSD frequency - just need to bring the probe tip near the SSD coil).

Unlike the lowest frequency standard coil for 1.7 to 4.0 mc, which has a powdered iron core, the 46702 and 46703 coils are air-core. Also, unlike all the standard coils which are two-terminal ('cause the oscillator is a Colpitts configuration), the low-frequency coils are three-terminal.

Each low-frequency coil has two bank-wound sections approx 1/8" wide and spaced by 1/8". The tap going to the 3rd terminal comes from the

connection between the two banks, so is, presumably, a center-tap. Because the two banks are spaced from each other, the coupling between them is not unity. Here is what I measured:

46702 Coil (925 to 2000 kc): End-to-End (ie, total) inductance : 520 uh

Bank 1 Inductance : 205 uh Bank 2 Inductance : 201 uh

Calculated Mutual Inductance : 57 uh Coupling Coefficient : 0.28

Measured self-resonant frequency : 3.80 mc

46703 Coil (500 to 1050 kc): End-to-End (ie, total) inductance : 1735 uh

Bank 1 Inductance : 648 uh Bank 2 Inductance : 636 uh

Calculated Mutual Inductance : 225 uh Coupling Coefficient : 0.35

Measured self-resonant frequency : 2.18 mc

Because the total end-to-end inductance is greater than the sum of the individual bank inductances, we know that the two banks are wired series aiding, ie, in phase. The mutual inductance was calculated as:

$$M = (L_{total} - L_{bank1} - L_{bank2}) / 2$$

and the coupling coefficient as :

$$k = M / \text{sqrt}(L_{bank1} * L_{bank2})$$

I decided to try some non-tapped hi-L inductors, ie, RF chokes, to see how they would work 90652 SSD. As the inductance was increased beyond 2.5 mh, the oscillations became erratic. Apparently, the center-tap (and non-unity coupling between banks) is required. My estimates for the required end-to-end inductance for the two lowest frequency coils is: 4.5 mh for the 325 to 600 kc coil and 11.8 mh for the 220 to 350 kc coil. BTW, the only connector that I could find that fit the coil pin socket on the body of the SSD is an RCA phono plug. I used two single-piece phono plugs each with an alligator clip-terminated short jumper attached for the last experiment.

If anyone has the two lowest frequency coils (and possibly, the purported

5th coil) perhaps they would be willing to describe their construction and provide the relevant measured parameters.

```

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% Michael A. Burke, Synetics Consultants      +=====+ %
% PO Box 439, 11 Scenic Dr, Westminster, MA 01473 | o _ o | %
% 508-874-0908 mab@delphi.com                | / \ | %
%                                             | ( / \ ) | %
% Self-confessed test equipment jockey and junkie | \ , / | %
% (from all those years spent chained to a service | o o | %
% bench at "Laff-at-it" Radio Electronics).      | o . o | %
%                                             | : : : | %
% Formerly, "The Hippie City Radio Doctor"      +=====+ %
% State College, Pennsylvania
%
% Now, just another Urban Computer Cowboy.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Dale Braun <dale.k.braun@uwrf.edu>
Subject: Manual Needed for Teletype Re-perf
Message-ID: <s1ac3419.003@adngate.adn.uwrf.edu>

Folks:
I have a Teletype Corporation typing re-perf unit in need of an overhaul. Does anyone have a manual they'd be willing to copy? I'd be glad to pay copy and postage costs.

Thanks in advance.

73,
Dale
WD9GWH
Dale.K.Braun@uwrf.edu

P.S. - Anyone planning on using BA equipment at Field Day this year?

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Need to kill Re: URGENT ARRL NEDIV BULLETIN

Message-ID: <9605291947.AA19024@syseng1.se.melpar.esys.com>

Sandy et al,

It has been brought to my attention that my repost of this information was inappropriate for the BA group; please accept my apologies. What I should have done was made it available to interested parties via e-mail (or recommended the newsgroups rec.radio.amateur.policy or rec.radio.amateur.misc, which I'm sure are beating this issue into the ground with great vigor, as they are wont to do.....).

73,

Paul, K4MSG

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: New Ham With Boatanchor Leanings Needs Schematic (HELP).
Message-ID: <9605281916.AA105516@csemail.cropsci.ncsu.edu>

THIS NEW HAM TO BE HAS GREAT BOATANCHOR LEANINGS, ALREADY.
HE IS LOOKING FOR A SCHEMATIC TO A LAFAYETTE HE-30 TUBE RECEIVER.
CAN ANYONE HELP HIM, PLEASE! IT WOULD BE GOOD PR FOR THE LIST AND
FOR YOUR ELMERING SPIRIT. (PAYBACK TIME FOR ALL THE ELMERS THAT ELMERED
YOU, OK?)

TNX/BOB/NA4G

>
> I am interested in "getting started" in Ham Radio. I went to a HAM FEST
> and found a Lafayette HE-30 receiver. I hope to build a transmitter after
> learning regs and code.
>
> Unfortunately, the HE-30 does not work; all attempts to get a schematic
> ie John Brewer's excellent list have failed. Any ideas?
>
> Please reply mfischer@voicenet.com
>
> Thanks

I will check around and see what I can find. A friend may have a schematic.
We have several books of odd schematics. Perhaps that HE-30 will be there.
I will also bounce it among friends that may be able to find a schematic
for you.

Welcome aboard, and good luck in Ham Radio!

Bob/NA4G

rdkeys@csemail.cropsci.ncsu.edu

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: Pmalvasi@aol.com
Subject: PADDLES & KEYS
Message-ID: <960527230446_122078672@emout12.mail.aol.com>

Hi to Boatanchors - I am an avid key collector and not a dealer. I have the following items for the list: I am also looking for any older telegrams or ARRL Messagegrams - prefer with real message but blanks OK too. Any old WU paper and ephemera.

I have several early keyer paddles I have decided to put up for trade for early land line keys, sounders, relays, paper, etc. Anyone interested in these items let me know and I will promise a real quick reply.

Original FYO single lever paddle with triangular nameplate, original distinctive knobs and original cord. Excellent, like new.

Original HAL Iambic, very similar to above - same distinctive triangular base with nicely rounded corners and very nice small twin paddle levers - deep red color. With base plate with 3 square memory activation buttons and original cable. Excellent condition.

Elkey paddle, black base model with neat nameplate. Very good to exc. condition.

Vibroplex single lever beige base with s/n plate. Vy good condx. ca 70's

Eldico keyer/paddle unit - all original. Good condition and works.

FOR SALE:

Navy Flameproof, ca 1950's 26003 with skirted knob all orig and exc condx \$25.00

Same as above, have 2 but with standard non-skirted knob someone probably replaced orig with. Vy good condx. \$20.00 each.

Call Pete at (201) 934-0321 24 hr voice mail system or here.

73 - WB2BYQ.

Please note that I don't collect Vibroplex except for more distinctive models and only looking for a double lever at present. I am also looking for a McElroy plastic teardrop and oscillator and any model Mecograph for which I was also pay a cash premium.

Best 73 - Pete

From boatanchors@theporch.com Wed May 29 13:57:06 1996

From: russ@eng.mc.xerox.com (Russ Schroeder)

Subject: Pre: Rochester NY Hamfest Sale

Message-ID: <9605291150.AA05971@robinhood>

The following items are going to be available at the Rochester, NY Hamfest this weekend. If anyone is interested in any item, contact me via e-mail or phone (evening only) at (716) 248-5453. All prices less shipping (or hamfest pick-up)

1) HQ-170 receiver, no clock, speaker mounted in place of clock, small toggle switch added next to speaker for internal / external speaker. Hammarlund noise blanker installed. Noise limiter knob chipped, non-original tuning knob, no other mods. Looks and works good. Copy of manual. \$125

2) HQ-170 receiver, no clock (has clock crystal in place). No mods or added holes. Front panel paint scratched next to clock crystal and vernier tuning knob. All original knobs. Looks and works good. Copy of manual. \$125

3) Booton 160 Q-Meter, tested, works fine. Includes 14 Booton "Standard" calibration inductors. No manual. \$200

4) HT-40 transmitter. Works good all bands. Mods: AF gain moved to front panel, "spot" switch added to front panel, VFO jack added in place of AF gain on rear panel. Copy of manual. \$50

5) HP-202A low frequency function generator, works all ranges. Rack Mount. No manual. \$25

6) 75A1 collons mechanical filter plug-in adaptor Type No. 353C-31 522 9033 004 No installation info. Unable to test, money back if not satisfied. \$100

7) T558B/TRC42 single channel crystal control VHF AM transmitter, 110-150 Mhz. 2E26 final, P-P 6L6 modulator, 120 vac power supply,

fully metered. Rack mount. No manual. \$50

8) TS-497C Signal Generator, 2-400 MHz, calibrated output, variable 400 & 1000 Hz tone, pulse input. With covers and copy of manual. No accessories. \$50

9) Johnson Invader, good condition, tested and working AM/SSB/CW. Output level control extended out left end of cabinet, no other mods. Paint worn around operate switch and VFO knob. Original knobs and manual. \$200

10) R109/GRC receiver, 27-39 Mhz FM, excellent condition, tested and operating, no power supply module. Copy of manual \$25

11) AN/PRM-10 grid dip oscillator, complete set of coils, good working condition. Paint missing on meter. Case paint in poor condition. Mechanically in good condition. No manual \$65

73 Russ W2DYY

russ@eng.mc.xerox.com

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: jkh@lexis-nexis.com (John Heck)
Subject: R-390A From Fair
Message-ID: <9605281840.AA21176@beans.lexis-nexis.com>

I am considering purchasing a R-390A from Fair. They tell me that they have plenty of checked ones but none with meters. How difficult will it be for me to find original meters or replacement meters? Can I expect a "checked" example to be in operating condition?
Thanks for the advice.

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: merrigan@ee.ualberta.ca
Subject: Re: R-390A From Fair
Message-ID: <199605300157.UAA08209@uro.theporch.com>

WHICH: <9605281840.AA21176@beans.lexis-nexis.com>
WHEN: 05/29/96 at 01:23 PM (SystemDate:EDT)
WHO: jkh@lexis-nexis.com (John Heck)
WHAT: R-390A From Fair.

I say:

>How difficult will it be for me to find original
>meters or replacement meters?

Original meters=difficult
Replacement meters=can be had

I have several sets of replacement meters which are the same size and shape, hole spacing, etc as the original meters, but with a slightly different face.

Can I expect a "checked" example to be in
>operating condition?

Based on my experience, when they say checked they mean that it will be physically complete (if they say covers, it will have covers) and there will be audio output, and the controls will function. But it will need alignment, adjustment and some cleaning to bring it up to snuff. The good news is that Fair Radio is exactly that (at least in my experience). If something does not work (and you have purchased it as "checked, working") they will replace it without hassle. This has happened to me a couple of times, and Fair has always been, well, fair.

Good Luck.

--

merrigan@nyquist.ee.ualberta.ca
Electrical Engineering Student
University of Alberta
Edmonton, Alberta, Canada

"Smart is dumb: It is unwise to build too much intelligence into a self-replicating machine."

--Fischel's Law and Epitaph

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: Re: R-484/APR-14 Airborne Panoramic Search Receiver
Message-ID: <31ABA416.298C@ghgcorp.com>

Hello y'all...

I'd like to thank everyone for the information and advice on the R-484/APR-14 Panaoramic Search Receiver. I have decided to hold off and look for something better in that frequency range. Anyways, a Hammarlund SP-600-JX17 made up my mind for me and took the cash I was thinking about spending on the R-484.

Thanks again,
Ben

--

```
=====
+ Benjamin D. Hall, Houston Texas +
+ BDHall@GHGCorp.com BHall@GP802.JSC.NASA.gov +
=====
```

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: David Adams <dave@flowserver.stem.com>
Subject: Radio Activity in Maine?
Message-ID: <9605281854.AA08948@flowserver.stem.com>

Business trip time again. I will be flying into maine on the 8th of June and staying at Bowdoin College. Anyone in the area? Anything interesting happening? Anyone wanna have lunch? Anyone need 40m qrp from maine? Any good boatanchor spots? Lemme know as I will be there all week.

73 de dave, n9uxu

```
=====
David J Adams N9UXU QRP-L #83
dave@flowserver.stem.com NorCal QRP #1442
(415) 813-5028 Flow Cytometry Specialist
```

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Bill_Carns-R07670Q@email.sps.mot.com
Subject: RE>Re- Testing 6550 tubes
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Reply to: RE>Re: Testing 6550 tubes

Some thoughts on gassy. For those of you that don't know, a gassy tube can sometimes be rejuvenated by running it with just the filaments running at rated current and voltage to getter the tube. This heats up the envelope and allows the sputtered on getter area to do its job. Won't bring back a really bad one but will help. Not a bad idea to do this to all tubes that have set around a long time without being used. This includes most old NOS tubes you buy, especially transmitting and high voltage tubes. Don't just flip 'em on and hit 'em with plate voltage. 24 to 48 hrs is good.

de N70TQ, Bill. P.S. Anybody seen my 302E-2 Wattmeter I'm looking for ??

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: maccary@on-ramp.ior.com
Subject: RME-84
Message-ID: <m0u0up6-000TiuC@on-ramp.ior.com>

I have an RME-84 I would like to trade or use as a down payment on a VLF receiver that would tune down to 10 or so KCS. The RME is about a 7 electrically--it plays pretty good on bands 1 thru 3, but is poor above 15 MCS. The case is maybe a 4 or 5 with discolored paint and some chips and some previous owner drilled two small holes between the speaker and the fan dial for some obscure purpose.

I plan to lug this thing to the next fest or flea market and wonder what might be its fair value in a trade. I really don't want to sell it 'cause I'll only squander the cash on some bauble that catches my eye. Any advice out there in BALand?

Mac--W=D8NAX
Lawrence M. MacCary --- A Subscriber at Internet On-Ramp, Inc.=20

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Daniel F. Stiles" <Daniel_F._Stiles@inetgate.ushmm.org>
Subject: SB303 help
Message-ID: <9604288333.AA833310915@inetgate.ushmm.org>

Hoping to solve problem

Have recently acquired Heath SB303 for school project and ham club.

Rcvr was in flood but not badly damaged. It cleaned up nicely.

On power-up, all appeared normal (no smoke and all

the lights in the room stayed on). Problem is when AGC switch is in fast or slow, (immediate in fast--takes about a half second in slow) an oscillation starts and the S meter deflects up to about half scale. Changing the RF gain will stop it.

Any suggestions would be greatly appreciated.

I just saw in the manual that Heath wants the LMO terminated if not used with a companion transmitter. I had not done that but do not think this is cause.

thanks, Dan KB1BG

From boatanchors@theporch.com Wed May 29 13:57:06 1996
Subject: SCOTT MODEL RCH LF RECEIVER

HELLO TO ALL....I HAVE A VERY VERY CLEAN MODEL RCH BY SCOTT. IT IS IN EXCELLENT WORKING CONDITION...AS MANUFACTURED. THE OUTER CABINET AND SHOCK MOUNT HAS BEEN REPAINTED IN A PERFECT MATCH OF COLOR. THE FRONT PANEL IS SO CLEAN THAT IT DID NOT NEED REPAINTING [THANK HEAVENS]. WITH MANUAL COPY THE PRICE IS 250.00. SINCE IT WEIGHS 107#, MORE OR LESS, SHIPPING IS OUT OF THE QUESTION UNLESS YOU ARE WEALTHY BEYOND WORDS. WOULD BE GLAD TO MEET YOU SOMEWHERE WITHIN 250 MILE RADIUS OF TUCSON,AZ. THANKS AND 73 DE N7IOK, CLYDE.

----- Forwarded message ends here -----

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: arther.dent@smtp.prostar.com
Subject: Re:Share these places or die!
Message-ID: <199605291705.MAA05170@uro.theporch.com>

W> Ever notice how hams like to keep things to themselves? Especially
W> places loaded with "stuff" that we would all like to share.
W> I was in Seattle last summer and found something called "Electronic
W> Dimensions" in Tacoma(near Seattle).

<snip>

OK.....OK.....OK

i know when i've been found out.

i was wondering when to break the news.

not only does this place make Fair Radio look small time.....

it is also run by a ham (the owner is Glen KA7BOJ), the inventory is second to none. i live approx. 2 miles due south of the store, and i was down there the other day, and i saw at least 10 or 15 Gonset goony boxes (both 6 and 2 meters) 3 or 4 R-390s, and various other versions. the tube area is an asle 25 feet long with shelves 12 feet high and 3 feet deep. (and that's only in one whs.) when i need a tube i don't call one of those mail order places..... i just run down to see Glen. someone awhile back was complaining about the scarcity of wire wound resistors... Glen has bins of them (i found the exact replacement for the one in my Halli. TW-2000).

i think i saw about 50-75 'scopes from all the major mfg's.

i've known Glen since i was a small boy, and he's a great guy to deal with.

i have been trying to get him to find time to get on the list (soon hopfully).

any way

73's

mike

KB7VNT

i transmit therefore i am.....

cc: boatanchors@theporch.com

From boatanchors@theporch.com Wed May 29 13:24:12 1996

From: d.buska@aaiate.com

Subject: Small Parts Inc. - Phone Number

Message-ID: <96May29.111217cdt.15361@gateway.aaiate.com>

>Another alternate would be to get hold of the "Small Parts
>Inc." catalog. These folks have a vast selection of specialty hardware in both
>SAE and Metric. Call them for a catalog at (305) 759-5143. They have a \$15.00
>minimum order which isn't that bad really. They also have a big selection of
>small gears, rack and pinions, pulleys, couplers (have you tried finding new
>1/4" shaft couplers lately?), flexiable shafts and universal joints. Their
>catalog should be on every BA's refurbishers shelf.

>

>The phone number you listed yields a recording that states the number has been
>changed to (305) 919-9026, and upon calling the "new" number, I get a private
>residence. Could you re-check the number and let me know?

>

>Thanks & 73,
>Sheldon KC0CW

I have received several messages like this one above from Sheldon. I guess the phone company is screwed up in Miami with their "new" number forwarding. However, I did get the new number for Small Parts which is (305) 751-0856. I called and confirmed that this one is indeed for them. So those of you who want a catalog can now request one.

Sorry for the confusion I might have caused you and that private residence that ma-bell is telling everyone to use.

73

Don N900
d.buska@aaiate.com

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: Jay Coward <jayc@hpmsd2.sj.hp.com>
Subject: snap slides
Message-ID: <9605282308.AA12159@hpmsd2.sj.hp.com>

Greeting to the group,

Does anyone know if "snap slides" are still manufactured? These are the little gadgets that lock an assembly or rack mount to the shock mount in aircraft use. I'm particularly looking for the "post" that would mate to the snap slide. The goal is to fabricate a substitute shock mount scheme for command sets and others that use that mounting arrangement. I've considered dismembering mounts from other gear like LMs and RUs but the War Crimes Tribunal would most assuredly find me guilty and condemn me to a life-long and futile search for the connector that fits the remote RF AMMETER used on the AN/ARC-5 set...

Thanks 73 Jay KE6PPF

--

NOTIFY PILOT BEFORE UNLOCKING AUTOTUNE

HEWLETT	John Jay Coward	39201 Cherry Street	MS NK10
PACKARD	jayc@hpmsd2.sj.hp.com	Newark, California	94560

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: SP-600 JX 17
Message-ID: <31ABA354.67AC@ghgcorp.com>

Anyone have a schematic for a Hammarlund SP-600-JX17? Mine arrived today and has some problems.

Fired it up and heard crackling sounds from the front of the set followed by a loud pop before I was able to switch the power off. Found no shorted tubes, good filter caps, and no shorts to ground on B+. No sounds without B fuse installed, so problem must be on the HV line.

Checked fuses, both proper value and okay, tried it again and noticed a wisp of smoke coming from the HFO box. I imagine the problem is in there, heh heh heh! Now to figure out how to get it open and peek inside.

Anyone got any hints? Looks like I have to remove the plate the chokes are mounted to to access the screws that mount the HFO box to get it out...

Thanks and 73,

Ben

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=====
+ Benjamin D. Hall, Houston Texas +
+ BDHall@GHGCorp.com BHall@GP802.JSC.NASA.gov +
=====
```

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: SP-600-JX17 saga continues
Message-ID: <31ACFD9E.7C3B@ghgcorp.com>

Hello all.

Glued the little toroid donut back together, cleaned the HFO air variable condenser out (it was corroded) and fired her up. Was able to get local AM audio (yes!) but got more smoke (not a lot, just enough to

see), but none from the HFO box. Looks like I won a battle but haven't yet won the war. Not sure where the smoke is coming from, will have to investigate more.

A little more on the set: I think the problems are due to cat urine. Seems like the one side was covered in it. Smells none too good, spent some time getting the worst of it off.

Everyone keeps talking about black tubular condensers, but I cannot find any! Everything inside the HFO was postage stamp mica. Inside the bandswitch box was mica. Everything underneath the chassis is metal can, metal can electrolytic, mica postage stamp, or ceramic tubular jobs (only a few of these). None else!

Serial number on the tag is 13610, which means it may be an earlier one before black tubulars came onto the market? Could that be? (Paging Mr. Robert Fowle, paging Mr. Robert Fowle...) Wiring is standard cloth and some sort of insulative material underneath wiring. I don't place a lot of faith in the accuracy of the tag, it looks too clean in comparison to the rest of the radio.

Thanks and 73,

Ben

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=====
+ Benjamin D. Hall, Houston Texas +
+ BDHall@GHGCorp.com BHall@GP802.JSC.NASA.gov +
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From boatanchors@theporch.com Wed May 29 13:24:12 1996

From: ks0f@i1.net (MIKE SANDERS)

Subject: Spreadout

Message-ID: <199605280103.UAA22687@mail1.i1.net>

Greetings All,

Them lunchboxes and goonie birds are beaten each other somethin awful on 50.4 AM. Its 0100Z here in MO (EM48). Spread em out guys.

And you asked about AM activity on 6! Its qrm time bigtime. This Comm

IV is in hog heaven.

Have Fun

73 de KS0F

From boatanchors@theporch.com Wed May 29 13:24:12 1996

From: dma@IslandNet.com (Jan Skirrow)

Subject: TA-12B Radio for Sale (fwd)

Message-ID: <m0u0BIu-000W35C@comm.amtsgi.bc.ca>

Reply to: gianna@jhunix.hcf.jhu.edu (Gina Bates) --- NOT TO ME

I have a brand new Bendix Model TA-12-B radio made for WWII US bombers. I checked with the NASM in DC and they checked all of their on site and off site inventories and did not have one. I am thinking of selling it, I have two of these in original boxes.....Any Offers ??????

All Replies to:
GIANNA@JHUNIX.HCF.JHU.EDU
dma@islandnet.com

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: arc5@ix.netcom.com (David Stinson)
Subject: TCS-12
Message-ID: <199605290801.BAA08643@dfw-ix1.ix.netcom.com>

Hi John/All. A TCS-12 is one of a series of very popular 25 watt WW-II era CW-AM transmitter/receiver sets. I know of TCS-3 to TCS-14, but there may be others. The differences rest mostly in manufacturers. Collins did the TCS-5, -9 and -12. They may have built others in the series, but I don't know of them.

The rig uses separate transmitter and receiver boxes, each being a cube of about a foot square. It uses an externally cabled power supply (of which there are many varieties), a cabled remote-control box and the external loading coil you mention. They cover 1.5-12 MC VFO or crystal control and are noted for their ruggedness and stability.

These rigs were in everything from submarines to destroyers to PT boats to patrol planes to U-boat spotting airships. Some saw service as late as the 60s.

The transmitter is an excellent performer for its era and nearly indestructable if used as designed. The receiver is broad, as were all 1930s military designs, but is sensitive, stable and has excellent audio when properly matched. The loading coil you have was used in the antenna lead to add series inductance for matching a short antenna below 3 MC.

I have a complete TCS-12 and TCS-13 on the air and am very happy with them, especially on AM. I am

building a second TCS-12 set for a friend and would like to trade for the loading coil if you have no plans for it.

73 DE Dave Stinson AB5S
arc5@ix.netcom.com

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.ENET.dec.com>
Subject: RE: Testing tubes
Message-ID: <9605281224.AA07115@us2rmc.zko.dec.com>

Ray, there isn't any listing for the TV-2 for the 6550. I have checked the roll-chart and the supplement manual. I don't know for a fact, but I believe the big reason is the filament current required to get the filament up to proper operating temperature.

- Mark

From boatanchors@theporch.com Wed May 29 21:34:44 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: Toroid coil w/broken donut
Message-ID: <31ACD427.4CBE@ghgcorp.com>

Hello y'all...

Got a coil that is wound on a toroid form in the HFO and crystal box of my SP-600-JX17. The form is broken into three peices, most likely from expansion of the wood mount (inside of the ring with a bolt thru the wood). After some careful inspection, the windings are good. I was able to superglue it back together, and now I am wondering if or not this will work.

Will the magnetic flux be able to jump the superglued gaps? I was able to realign the peices pretty well, but should I expect this to work???

My guess is that it will work, but the coil characteristics are messed up enough to throw off any sort of calibration the hinges on this coil.

Thanks and 73,
Ben

--

=====
+ Benjamin D. Hall, Houston Texas +
+ BDHall@GHGCorp.com BHall@GP802.JSC.NASA.gov +
=====

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: AviDov@aol.com
Subject: Tube Identification
Message-ID: <960528010659_402016550@emout07.mail.aol.com>

Need specs on a British FW Rect type AU1 4 pin base on a large glass envelope.
The mfr. was Halltron of London. A US equiv. cross ref will also help.
Some weeks ago someone mentioned a source for TTY parts which I failed to record.
I'm looking for some typebars for model 15.

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: Spencer Petri <spetri@e-tex.com>
Subject: Tubes
Message-ID: <m0u0TJn-0002ehC@e-tex.com>

Hey gang,

I have a large amount of old tubes, so if you get stuck, give me a try. I may be able to help.

73 de Pete WA5JCI

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: ks0f@i1.net (MIKE SANDERS)
Subject: Unhappy
Message-ID: <199605281706.MAA29441@mail1.i1.net>

Greetings All,

Well of course we all know about the risk we take when buying stuff sight unseen and this one was no real big deal but I am very unhappy none the less. I bought a couple small pieces off wreck radio slop commercial. An "excellent condition" Knight V44 and P2 swr meter. Paid 60 bucks which included shipping to St. Louis from up NE. The paint is mostly gone off the meter. The vfo has no screws at all and is missing the dial pointer. Does not work. It is at very best a 5 on the old 10 scale. I am and have and will ship "parts units" that are capable of being restored and are at least complete unless otherwise noted that are in far better condition than this "excellent condition" stuff. You win some and you lose some. I guess we always have to remind each other of the pitfalls. Damn shame.

KS0F Mike

As SGT. Estherhouse used to say "Lets be careful out there"

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: URGENT ARRL NEDIV BULLETIN
Message-ID: <9605291248.AA07595@syseng1.se.melpar.esys.com>

Forwarded in the interest of Amateur Radio by K4MSG

*****ARRL NEW ENGLAND DIVISION SPECIAL BULLETIN 96-9A*****

QST to all Amateurs

May, 1996

Strafford, VT

NEW ENGLAND DIVISION DIRECTOR
Bill Burden WB1BRE
wb1bre@arrl.org

NEW ENGLAND DIVISION VICE DIRECTOR
Warren Rothberg WB1HBB
wb1hbb@arrl.org

***** 2 Meter AND 70 cm BANDS THREATENED *****

THIS IS NO JOKE!! ARRL HAS LEARNED THAT IN PREPARATION FOR THE WORLD RADIO CONFERENCE IN 1997, REPRESENTATIVES OF THE LOW-EARTH-ORBIT (LEO) INDUSTRY PROPOSED A LIST OF CANDIDATE FREQUENCY BANDS FOR REALLOCATION TO, AND EXCLUSIVE USE OF THE MOBILE SATELLITE SERVICE. THIS LIST INCLUDES 144- 148 MHZ (THE CURRENT AMATEUR 2 M BAND) AND 420-450 MHZ (THE CURRENT AMATEUR 70 CM BAND)!

IF THIS EFFORT WERE TO BE SUCCESSFUL, IT WOULD MEAN THE END OF AMATEUR OPERATIONS ON THESE TWO MOST HEAVILY UTILIZED AMATEUR VHF/UHF BANDS!

I have included the text of Dave Sumner's upcoming editorial for July QST in this bulletin. ARRL, as the principal representative of Amateur Radio in Washington, is actively pursuing this issue as this

bulletin is being written. Dave's call to action is serious!! We could lose these bands if we do not take action now!!

Club presidents and newsletter editors: please make this information available to your membership as soon as possible.

Follows the text of Dave Sumner's July QST editorial:

WRITE NOW!!!!

Get out a pen and paper, or boot up your computer. There's work to be done! Your help is needed to defend two meters and 70 cm. Yes, that's right -- the two most popular and crowded amateur VHF/UHF bands! But don't panic, and don't "go ballistic."

Here's what's happening, and what you can do about it.

The United States is preparing for the 1997 ITU World Radiocommunication Conference, WRC-97. In the past, the public has been able to participate in the preparations for such conferences by responding to FCC Notices of Inquiry. In March, the FCC announced a streamlining of its International Bureau's preparatory processes for WRCs. Under the new scheme, the NOIs have been eliminated in favor of increased emphasis on WRC Advisory Committees.

For WRC-97, a series of Informal Working Groups (IWGs) of the Advisory Committee has been created to address specific agenda items. The output of each IWG will go directly to a joint FCC-NTIA-Department of State Steering Committee of the Advisory Committee. There, draft proposals as received from the IWGs will be reviewed and forwarded to the FCC for possible release as preliminary U.S. proposals for public comment.

In announcing the streamlined WRC preparatory process, the FCC tried to reassure those who might be concerned about reduced opportunities for public participation: "Interested parties should note that input to the Advisory Committee may be sent at any time directly to the Chair of the WRC-97 Advisory Committee; the Chairs of the Advisory Committee's Informal Working Groups; Cecily C. Holiday, the FCC's federal officer of the WRC-97 Advisory Committee, on C. Ladson, the alternate federal officer."

Hold that thought while we shift gears to the substance of the issue.

One of the WRC-97 agenda items includes consideration of possible additional frequency allocations for the mobile-satellite service. So-called "little LEOs," low-earth orbit satellites below 1 GHz, already have allocations. Their proponents claim these are inadequate and are trying for more. The needs of little LEOs are being addressed in IWG-2A, chaired by Warren Richards of the Department of State. The ARRL technical relations staff participates in IWG-2A to represent Amateur Radio interests.

At the May 7 IWG-2A meeting, an industry representative proposed a list of "candidate bands" for little LEOs. The list includes a number of bands that would negatively impact existing services, and does not include others that would be technically more feasible but to which strong objection from incumbents could be expected -- the point being that some political, rather than purely technical, judgment already has influenced the list.

Incredibly, 144-148 and 420-450 MHz were included on the list! This is the first time in memory that another service has been proposed for the two-meter amateur band. We must make sure it is also the last time.

We do not need to explain to ARRL members the extensive use that is made of these bands by amateurs. The two bands provide the backbone of our local public service communications effort. Voice and data, mobile and fixed, even television -- the list of present amateur uses is a long one, and of future uses is even longer. Both are already used for satellite services and for moonbounce and extended-range terrestrial operations requiring extremely sensitive receivers and high levels of effective radiated power.

Apparently we did need to explain all this to the little LEO industry representatives, so we did just that -- both at the meeting and in our letter on May 15. We also explained that we had to regard the matter as extremely serious. No one with the slightest background in radiocommunication could possibly believe that a mobile-satellite service could be introduced into either band without disrupting existing and future amateur operations. Therefore, we said, if we did not receive assurance that they would be taken off the list of candidate bands by the deadline for this issue of QST, we would have no choice but to bring the matter to the attention of the entire membership.

The response we received was unsatisfactory. In effect, we were told the little LEO industry would consider our views but that until their spectrum needs are satisfied, all bands must remain under consideration.

So, this is a call to action. We must get across to the industry and government participants in IWG-2A that the 144-148 MHz and 420-450 MHz bands cannot be considered as candidates for mobile-satellite services. We need to drive the point home so forcefully, with so many grassroots responses, that no one is ever tempted to try this again.

Which brings us back to that invitation for "interested parties" to send input "at any time." There's no time like the present! Here are the key addresses, including those of the mobile-satellite industry folks who seem to have started the ruckus:

Cecily C. Holiday, International Bureau, FCC, Washington, DC 20554; choliday@fcc.gov; FAX (202) 418-0748.

Warren G. Richards, Chair, IWG-2A, Department of State, CIP 2529, Washington, DC 20520; richardswg@ms6820wpoa.us-state.gov; FAX (202) 647-7407.

Tracey Weisler, FCC Rep., IWG-2A, International Bureau, FCC,

Washington, DC 20554; tweisler@fcc.gov; FAX (202) 418-2824.
Mary Kay Williams, Final Analysis, Inc., 7500 Greenway
Center, Ste. 1240, Greenbelt, MD 20770; FAX (301) 474-3228.
Leslie Taylor, LTA, 6800 Carlynn Court, Bethesda,
MD 20817; ltaylor@lta.com; FAX (301) 229-3148.

Do comment. But be civil. Don't abuse people who are simply doing their jobs. We have to get across that casting covetous eyes on amateur bands is counterproductive, and contrary to the public interest. To accomplish this we need a lot of comments, including yours. But remember that the objective is to educate and persuade, not to intimidate. We don't need to. The facts are on our side.

To monitor the FCC's ongoing WRC-97 preparations, visit its WRC-97 home page at: <http://www.fcc.gov/ib/wrc97/>.

Write now. Right now! -- David Sumner, K1ZZ

From boatanchors@theporch.com Wed May 29 14:58:31 1996
From: "Sandy, W5TVW" <70401.134@CompuServe.COM>
Subject: Re: URGENT ARRL NEDIV BULLETIN
Message-ID: <960529185746_70401.134_IHD199-3@CompuServe.COM>

GEE! SURPRISE..SURPRISE!!!!!!

I'm not belittling the "bulletin", but the commercial interests have been after 144-148 and 420-450 Mhz for years! Every time they get a chance, they include the bands hoping FCC will sell out to them! With the government being money hungry and literally "selling" parts of the spectrum, I wouldn't doubt it happens. I think a mountain of letters to the FCC is a waste of time. Best bet would be to get some Congressmen on our side with threats to cut FCC funding to the bone if they 'eliminate' the 2m and 70 cm ham bands. They only REAL thing any governmental agency respects nowadays is hitting "their group" in the pocketbook!

If your congressmen won't go along with you, then work towards getting their butts out of office! Ain't any 'ethics' in Washington, so you gotta play the game using their rules.

73,

Sandy, W5TVW

Boat Anchors collected, restored, modified, traded and used!

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "Cathy Elizabeth D'Entremont" <cdent@tenet.edu>
Subject: Re: vibroplex
Message-ID: <Pine.OSF.3.91.960527172954.15966A@Joyce-Perkins.tenet.edu>

Mitch:

I can't speak for anyone other than myself, but if the combo iambic/straight key were produced at enough of a run rate to keep it somewhat below the "price is no object" level, I would be a player on such a piece. Similar to the Brown Bros. of a few years back, I suppose.

This would give me the opportunity to get more use out of Vibropelx products, as the (older) Original Deluxe that I have right now, don't want to go below about 25WPM, even with the extra large weight I bought from you a couple months ago hung all the way out on the end.

73, Gerald

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Andy Howard WA4KCY <102452.362@CompuServe.COM>
Subject: Wanted Post for Friend
Message-ID: <960528015329_102452.362_DHT110-2@CompuServe.COM>

Hi Gang,

A friend who does not have e-mail capability asked me to post this wanted listing for him.

Wanted:

Old Heath Catalogs
Old Allied Radio Catalogs
Old Burnstein and Appleby Catalogs

Knightkit Ocean Hopper (he is a positive thinker)

His name is:
Tom Hand, W4WDF
770-972-9533

If you have something and prefer to e-mail me feel free to do so. A call to Tom from me is not long distance.

Regards,

Andy Howard, WA4KCY
Carrollton, GA

AMI #9

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: knudsen@gvmail.ih.att.com
Subject: Where did I go?
Message-ID: <9605281553.AA09319@bock.ih.att.com>

Just in case anyone wondered (I can dream) where I disappeared to, I went on a long vacation at end of April and set my BA List status to Postpone or NoMail or whatever, so the 100 msgs/day wouldn't choke my mailbox. Since then, I'm on a tight deadline to finish a major project, and since it was taking me 2-3 hours to read and reply to the BA mail (which I'd MUCH rather do than work on this open-ended and ill-defined work project), I have left the mail turned off.

I hope to turn it back on in mid-June.

Meanwhile, I've got my Viking II running 100+ W into a dummy load, after pulling out one "soft" 6146 (it glowed blue inside in addition to running away with the plate current). Haven't put up the new Fritzell or homemade dipole yet, but I have a KW Matchbox to help tame it when I do.

Guess I'm missing lots of news about Dayton this week. Just as well, maybe.... 73, mike k aa9rg

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: "William C. Robbins" <billrobb@serv01.net-link.net>
Subject: WTB Heathkits
Message-ID: <199605272341.TAA02838@serv01.net-link.net>

I am still looking for ham related Heathkits, catalogs, manuals, etc. Also, the ever elusive unassembled kits. Let me know what you may have for sale or trade please. Also, please include parts rigs.

Thanks.....Bill
William C. Robbins, WA8CDU ***Heathkit Collector***
billrobb@serv01.net-link.net

From boatanchors@theporch.com Wed May 29 13:57:06 1996
From: Terry Neal <tmneal@pacbell.net>

Subject: WTB: Collins 312B-4 & SM-1

Message-ID: <2.2.16.19960529003401.2d57ac72@pbinet.com>

Looking for Collins 312B-4 Station Control for S-Line. Prefer Round.
Also looking for SM-1 Microphone for S-Line

thanks Terry aa6tn

tmneal@pacbell.net

From boatanchors@theporch.com Wed May 29 13:24:12 1996

From: "William C. Robbins" <billrobb@serv01.net-link.net>

Subject: WTB: Manuals

Message-ID: <199605272332.TAA02531@serv01.net-link.net>

I recently picked up a few older 2 meter rigs (boatanchors??!!) and need manuals. If anyone could help I would really appreciate it. The rigs are the Trio 2200, SBE SB144, Heath HW-202 and the Gonset Communicator IV.

Originals, copies or whatever.

Thanks

Bill

William C. Robbins, WA8CDU

Heathkit Collector

billrobb@serv01.net-link.net

From boatanchors@theporch.com Wed May 29 13:24:12 1996

From: johnmb <johnmb@nando.net>

Subject: WTB:VF1

Message-ID: <Pine.SUN.3.91.960529120540.10569B-1000000@bessel.nando.net>

I'm looking for a Heath VF1 VFO to replace the one I traded off several years ago (I repent!).

If you have one, I have a DX40 looking for it!

Thanks

/john

wb5oau/4

PS: Welcome back BA list!

From boatanchors@theporch.com Wed May 29 13:24:12 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Yaesu FT401B
Message-ID: <Pine.ULT.3.91.960527170944.17389A-100000@admin.aurora.edu>

One of these jumped in my garage, I think looking for a place to die. It is basically dead although all the tubes are OK. Supply voltages are present. This is a real kluge of a radio IMO. 20 tubes and a few boards with transistors on them. I am having thoughts about parting it out - maybe using the supply and final components for a good home-brew rig, or an amp for my 20A.

What power did this thing run? How well did it perform? It looks like a bear to troubleshoot and I hate rigs with phenolic boards in them - I suspect open paths are the problem in this thing. It must weigh 50 lbs and doesn't even have a speaker in it.

Any thoughts on this thing are appreciated.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL